

Bulletin

Lycoming College

Williamsport, Pennsylvania

CATALOGUE ISSUE 1960-1961



*Lycoming is a Christian coeducational
liberal arts and sciences college.*

*It is open to students of all
backgrounds and opinions.*

*It explores all available avenues to truth
and stands firm in the liberal arts tradition
of training the whole person.*



LYCOMING COLLEGE BULLETIN

Williamsport, Pennsylvania

Approved to Grant Baccalaureate Degrees
by the Pennsylvania State Department of Education

Accredited by

The Middle States Association of Colleges
and Secondary Schools

The University Senate of The Methodist Church

Member of

Pennsylvania Association of Colleges and Universities

National Association of Schools and Colleges
of The Methodist Church

Association of American Colleges

The National Commission on Accrediting

CATALOGUE ISSUE 1960-1961

Register for 1959-60

LYCOMING COLLEGE BULLETIN

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authorized at Williamsport, Pennsylvania

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April, September, December

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Communications with the College

This Bulletin contains pertinent information relative to the College, its philosophy, programs, policies, regulations and offerings. All students and prospective students are urged to read it carefully and completely.

Inquiries of a specific nature should be addressed as follows:

PRESIDENT:

Gifts or bequests.

DEAN OF THE COLLEGE:

Information about faculty and faculty activities.

Academic work of students in College.

TREASURER:

Payment of College bills.

Inquiries concerning expenses.

Scholarships and loan funds for students in College.

ASSISTANT TO THE PRESIDENT:

Alumni information

Public relations

DEAN OF STUDENTS:

Questions or problems concerning students' health.

Residence and campus regulations.

REGISTRAR:

Requests for transcripts.

Notices of withdrawal.

DIRECTOR OF ADMISSIONS

Admission to the freshman class.

Admission with advanced standing.

Financial assistance for entering students.

Re-entry of students to Lycoming College.

Requests for catalogues.

DIRECTOR OF PLACEMENT:

Opportunities for self-help.

Employment while in College.

Employment upon graduation.

Address: Lycoming College, Williamsport, Pa.
Telephone Number: Williamsport 3-9411

1959	1960		1961
JULY	JANUARY	JULY	JANUARY
S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S
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AUGUST	FEBRUARY	AUGUST	FEBRUARY
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SEPTEMBER	MARCH	SEPTEMBER	MARCH
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OCTOBER	APRIL	OCTOBER	APRIL
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NOVEMBER	MAY	NOVEMBER	MAY
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DECEMBER	JUNE	DECEMBER	JUNE
S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Academic Calendar

FIRST SEMESTER 1959-1960

September 9, *Wednesday*. Freshman Orientation Begins
September 11-12, *Friday and Saturday*. Registration
September 13, *Sunday*. Matriculation Service
September 14, *Monday*, 8:00 a.m. Classes Begin
October 31, *Saturday*. Homecoming
November 7, *Saturday*. Mid-Semester
November 25, *Wednesday*, 12:00 Noon. Thanksgiving Recess Begins
November 30, *Monday*, 8:00 a.m. Classes Resume
December 18, *Friday*, 5:00 p.m. Christmas Recess Begins
January 4, *Monday*, 8:00 a.m. Classes Resume
January 12, *Tuesday*, 5:00 p.m. Reading Period Begins
January 15, *Friday*, 1:30 p.m. Final Examinations Begin
January 27, *Wednesday*, 5:00 p.m. First Semester Ends

SECOND SEMESTER 1959-1960

February 1, *Monday*. Registration
February 2, *Tuesday*, 8:00 a.m. Classes Begin
March 26, *Saturday*. Mid-Semester
April 8, *Friday*, 5:00 p.m. Easter Recess Begins
April 19, *Tuesday*, 8:00 a.m. Classes Resume
May 20, *Friday*, 5:00 p.m. Reading Period Begins
May 24, *Tuesday*, 1:30 p.m. Final Examinations Begin
June 3, *Friday*, 5:00 p.m. Second Semester Ends
June 5, *Sunday*. Baccalaureate and Commencement

SUMMER SESSIONS 1960

FIRST SESSION

June 9, *Wednesday*, 8:30 a.m. Registration and Class Organization

July 19, *Tuesday*, 12:25 p.m. First Session Ends

SECOND SESSION

July 20, *Wednesday*, 8:30 a.m. Registration and Class Organization

August 30, *Tuesday*, 12:25 a.m. Second Session Ends

FIRST SEMESTER 1960-1961

September 7, *Wednesday*. Freshman Orientation Begins

September 9-10, *Friday* and *Saturday*. Registration

September 11, *Sunday*. Matriculation Service

September 12, *Monday*, 8:00 a.m. Classes Begin

October 15, *Saturday*. Homecoming

November 5, *Saturday*. Mid-Semester

November 23, *Wednesday*, 12:00 Noon. Thanksgiving Recess Begins

November 28, *Monday*, 8:00 a.m. Classes Resume

December 16, *Friday*, 5:00 p.m. Christmas Recess Begins

January 3, *Tuesday*, 8:00 a.m. Classes Resume

January 11, *Wednesday*, 5:00 p.m. Reading Period Begins

January 16, *Monday*, 9:00 a.m. Final Examinations Begin

January 25, *Wednesday*, 5:00 p.m. First Semester Ends

SECOND SEMESTER 1960-1961

January 30, *Monday*. Registration

January 31, *Tuesday*, 8:00 a.m. Classes Begin

March 24, *Friday*, 5:00 p.m. Mid-Semester, Easter Recess Begins

April 4, *Tuesday*, 8:00 a.m. Classes Resume

May 19, *Friday*, 5:00 p.m. Reading Period Begins

May 23, *Tuesday*, 1:30 p.m. Final Examinations Begin

June 2, *Friday*, 5:00 p.m. Second Semester Ends

June 4, *Sunday*. Baccalaureate and Commencement

The Alumni Association

The Alumni Association of Lycoming College has a living membership of almost five thousand men and women. It is governed by an Executive Board of five officers and twenty-one members nominated and elected by the membership. It elects annually a member to the Board of Directors of the College for a three year term. The Assistant to the President of the College directs the activities of the Alumni Office.

The Alumni Association of Lycoming College has two objectives: (1) to promote the interests of the College, and (2) to foster among its members loyalty and devotion to their alma mater. All persons who have successfully completed one year of study at Lycoming College, or Williamsport-Dickinson Junior College, and all former students of Williamsport-Dickinson Seminary are members of the Association.

The Alumni Office is located in room 208 on the second floor of Old Main. Arrangements for Homecoming, Alumni Day, Class Reunions, Club meetings and similar activities are coordinated through this office. There are active Alumni Clubs in Williamsport, Philadelphia, and Pittsburgh, Pennsylvania; Rochester, New York; and Washington, D.C.

Lycoming College holds Class A, B, and C memberships in the American Alumni Council. Through its Alumni Fund, the Alumni Office is closely associated with the Development Program of the College.

Acting as the representative of alumni on the campus, and working also with undergraduates, the Alumni office aids in keeping alumni informed and interested in the program, growth and activities of the College.

Communications to the Alumni Association should be addressed to the Alumni Office.

Personnel of the College

Board of Directors

OFFICERS

HON. ROBERT F. RICH	<i>President</i>
MR. ARNOLD A. PHIPPS	<i>Vice-President</i>
MR. PAUL G. GILMORE	<i>Secretary</i>
MR. KENNETH E. HIMES (NOT A DIRECTOR),	<i>Treasurer</i>

HONORARY DIRECTORS

THE REV. W. W. BANKS	<i>Clearfield</i>
THE REV. A. LAWRENCE MILLER, PH.D.	<i>Williamsport</i>
THE REV. W. E. WATKINS, D.D.	<i>Williamsport</i>
THE REV. L. ELBERT WILSON	<i>Orlando, Fla.</i>

<i>First Elected</i>	<i>Term Expires 1960</i>	
1957	The Rev. Sheridan W. Bell, D.D.	<i>Harrisburg</i>
1948	Mr. Harold A. Brown	<i>Williamsport</i>
1957	Mr. Horace S. Heim	<i>Montoursville</i>
1957	Miss Eva L. Keller	<i>Williamsport</i>
	(Alumni Representative)	
1938	Mrs. Layton S. Lyon	<i>Williamsport</i>
1942	The Rev. Elvin Clay Myers, D.D.	<i>New Cumberland</i>
1941	Mr. Arnold A. Phipps	<i>Williamsport</i>
1931	Hon. Robert F. Rich, LL.D.	<i>Woolrich</i>
1936	Mr. George L. Stearns, II	<i>Williamsport</i>
1942	Judge Charles Scott Williams	<i>Williamsport</i>

*First
Elected*

Term Expires 1961

1949	Mr. Charles V. Adams	Montoursville
1949	Bishop Fred Pierce Corson, D.D., LL.D.	Philadelphia
1948	Mr. Frank L. Dunham	Wellsboro
1951	Mr. Paul G. Gilmore	Williamsport
1958	The Rev. William A. Keese, D.D.	Baltimore, Md.
1943	Mr. Ralph E. Kelchner	Jersey Shore
1958	The Rev. Dwight S. Large, D.D.	Philadelphia
1958	Mr. Lawson D. Matter	Harrisburg
1958	Mr. Fred A. Pennington	Mechanicsburg
1958	Mr. W. Russell Zacharias	Allentown
	(Alumni Representative)	

Term Expires 1962

1953	Mr. Jesse S. Bell	Williamsport
1953	Mr. Ernest M. Case	Williamsport
1959	Mrs. A. Roy Flanigan	Williamsport
	(Alumni Representative)	
1958	The Rev. Herbert W. Glassco, D.D.	Clearfield
1953	The Rev. F. LaMont Henninger, Th.D., S.T.D.	Harrisburg
1931	Judge Don M. Larrabee, LL.D.	Williamsport
1952	Bishop G. Bromley Oxnam, D.D., LL.D. ..	Washington, D. C.
1932	Mrs. H. Marshall Stecker	Mt. Carmel
1918	Mr. George W. Sykes	Cranberry Lake, N. Y.
1956	The Rev. Lester A. Welliver, D.D.	Williamsport

EXECUTIVE COMMITTEE

Mr. Harold A. Brown
 Mr. Ernest M. Case
 Mr. Frank L. Dunham
 Mr. Paul G. Gilmore
 Judge Don M. Larrabee, LL.D.
 The Rev. Elvin Clay Myers, D.D.
 Mr. Fred A. Pennington
 Mr. Arnold A. Phipps
 Mr. George L. Stearns, II
 Judge Charles S. Williams

Administrative Staff

- D. FREDERICK WERTZ *President*
A.B., LL.D., Dickinson College; A.M., S.T.B., Boston University.
- DAVID G. MOBBERLEY *Dean of the College*
B.S., Baldwin-Wallace College; M.S., University of Michigan; Ph.D.,
The Iowa State University.
- KENNETH E. HIMES *Treasurer and Business Manager*
B.S., Drexel Institute of Technology; G.S.B., Rutgers University.
- R. ANDREW LADY
Assistant to the President and Director of Development
A.B., Lycoming College; M.S., The Pennsylvania State University.
- JACK C. BUCKLE *Dean of Students*
A.B., Juniata College; M.S., Syracuse University.
- G. HEIL GRAMLEY *Registrar*
B.S., Albright College; M.A., Bucknell University.
- OLIVER E. HARRIS *Director of Admissions*
A.B., M.S., The Pennsylvania State University.
- HELEN M. FELIX *Dean of Women*
B.S., East Stroudsburg State Teachers College.
- M. RUTH GRIERSON *Librarian*
A.B., Alma College; A.B.L.S., University of Michigan; M.S., Columbia
University.
- DAVID G. BUSEY *Director of Physical Education and Athletics*
B.S. in Phys. Ed., M.S. in Ed., University of Illinois.
- HARRY J. CANON *Director of Counselling*
A.B., Lycoming College; M.S., The Pennsylvania State University.
- LEROY F. DERB *Director of Teacher Education*
A.B., Ursinus; M.A., Bucknell University; Ed.D., University of Pitts-
burgh.
- PHILIP C. HAMMOND, JR. *Director of Religious Activities*
B.A., (Brothers College) Drew University; B.D., Drew Theological Sem-
inary; M.A., Ph.D., Yale University.
- DONALD G. REMLEY *Director of Placement*
A.B., Dickinson College; M.A., Columbia University.
- H. LAWRENCE SWARTZ *Director of Public Relations*
A.B., Lycoming College; M.S., Boston University.
- MYRNA A. BARNES *Circulation Librarian*
A.B., University of California at Los Angeles.
- DANIEL G. FULTZ *Assistant to the Business Manager*
A.B., Lycoming College.

Faculty

Emeriti

WILLIAM S. HOFFMAN *Academic Dean Emeritus*
B.S., M.S., The Pennsylvania State University.

JAMES W. STERLING *Associate Professor of English Emeritus*
A.B., A.M., Syracuse University; Litt.D., Lycoming College.

Professors

ARNOLD J. CURRIER (1955) *Professor of Chemistry*
A.B., Colgate University; M.S., The Pennsylvania State University;
Ph.D., Cornell University.

LEROY F. DERR (1957) *Professor of Education*
A.B., Ursinus; M.A., Bucknell University; Ed.D., University of Pittsburgh.

GEORGE W. HOWE (1949) *Professor of Biology*
A.B., M.S., Syracuse University; Ph.D., Cornell University.

DAVID G. MOBBERLEY (1958) *Dean of the College; Professor of Biology*
B.S., Baldwin-Wallace College; M.S., University of Michigan; Ph.D., The
Iowa State University.

LORING B. PRIEST (1949) *Divisional Director, Social Sciences; Professor of History*
Litt. B., Rutgers University; M.A., Ph.D., Harvard University.

ERIC V. SANDIN (1946) *Divisional Director, Humanities; Professor of English*
B.S., Wesleyan University; M.A., Columbia University; Ph.D., Univer-
sity of Illinois.

GEORGE S. SHORTESS (1948) *Divisional Director, Natural Sciences; Professor of Biology*
A.B., Johns Hopkins University; M.A., Columbia University; Ph.D.,
Johns Hopkins University.

J. MILTON SKEATH (1921) *Professor of Psychology*
A.B., Dickinson College; M.A., University of Pennsylvania; Ph.D., The
Pennsylvania State University.

HELEN BREESE WEIDMAN (1944) *Professor of Political Science*
A.B., M.A., Bucknell University; Ph.D., Syracuse University.

Associate Professors

- JOSEPH D. BABCOCK (1931) *Associate Professor of Physics*
A.B., Dickinson College; M.A., Bucknell University.
- THOMAS G. BARNES (1956) *Associate Professor of History*
A.B., Harvard University; D.Phil., Oxford University.
- MABEL K. BAUER (1942) *Associate Professor of Chemistry*
B.S., Cornell University; M.S., University of Pennsylvania.
- DAVID G. BUSEY (1954) *Associate Professor of Physical Education*
B.S. in Phys. Ed., M.S. in Ed., University of Illinois.
- ROBERT H. EWING (1947) *Associate Professor of History*
A.B., College of Wooster; M.A., University of Michigan.
- W. ARTHUR FAUS (1951) *Associate Professor of Philosophy*
A.B., Dickinson College; S.T.B., Ph.D., Boston University.
- PHIL G. GILLETTE (1929) *Associate Professor of German and Spanish*
A.B., Ohio University; M.A., Columbia University.
- JOHN P. GRAHAM (1939) *Associate Professor of English*
Ph.B., Dickinson College; M.Ed., The Pennsylvania State University.
- M. RUTH GRIERSON (1955) *Librarian With Rank of Associate Professor*
A.B., Alma College; A.B.L.S., University of Michigan; M.S., Columbia University.
- JOHN G. HOLLENBACK (1952) *Associate Professor of Business Administration*
B.S., M.B.A., University of Pennsylvania. (on leave 1959-1960)
- FRANCES E. KNIGHTS (1947) *Associate Professor of Mathematics*
A.B., M.A., Bucknell University; D.Ed., The Pennsylvania State University.
- WALTER G. McIVER (1946) *Associate Professor of Voice*
Mus.B., Westminster Choir College; A.B., Bucknell University; M.A., New York University.
- ROBERT W. RABOLD (1955) *Divisional Director, Business Administration;
Associate Professor of Economics*
B.A., The Pennsylvania State University; M.A., Ph.D., University of Pittsburgh.

JOHN A. RADSPINNER (1957) *Associate Professor of Chemistry*
B.S., Richmond College; M.S., Virginia Polytechnic Institute; D.Sc.,
Carnegie Institute of Technology.

OTTO L. SONDER, JR. (1956) *Associate Professor of Sociology*
A.B., American University; A.M., Bucknell University.

JOHN A. STUART (1958) *Associate Professor of English*
B.A., William Jewell; M.A., Ph.D., Northwestern University.

ARMAND J. L. VANBAELEN (1947)
Associate Professor of Mathematics
College Communal, Tirlemont, Belgium; B.S., Agric. College, Gembloux,
Belgium; M.S., Rutgers University.

Assistant Professors

SIGMUND S. BIRKENMAYER (1959)
Assistant Professor of Russian and Spanish
B.A., M.A., University of Wisconsin.

BARTLEY C. BLOCK (1958) *Assistant Professor of Biology*
B.S., M.S., Northwestern University.

WILLIAM L. BRICKER (1955)
Assistant Professor of Business Administration
A.B., M.A., University of Washington.

HARRY J. CANON (1955) *Assistant Professor of Psychology*
A.B., Lycoming College; M.S., The Pennsylvania State University.

JOHN W. CHANDLER (1952) *Assistant Professor of Art*
A.B., St. Anselm's College; M.Ed., Boston University. (on leave 1959-1960)

ROGER EARLE COGSWELL (1946) *Assistant Professor of French*
A.B., Sorbonne University, Paris, France; M.A., The Pennsylvania State
University.

JOHN H. CONRAD (1959) *Assistant Professor of Education*
B.S., Mansfield State Teachers College; M.A., New York University.

ANNA SKABO ERICHSEN (1958)
Cataloguing Librarian with the Rank of Assistant Professor
Cand. Art., Oslo University; Graduate, Deutsche Bibliothekar-schule,
Leipzig, Germany; B.L.S., New York University.

WERNER J. FRIES (1958) *Assistant Professor of German*
B.S., M.A., Ph.D., Johns Hopkins University.

ELEANOR R. GARNER (1957) *Assistant Professor of English*
A.B., A.M., George Washington University.

PHILIP C. HAMMOND, JR. (1957)
Assistant Professor of Religion and Director of Religious Activities
A.B., (Brothers College) Drew University; B.D., Drew Theological Sem-
inary; M.A., Ph.D., Yale University.

- KENNETH JOSEPHSON (1958) *Assistant Professor of Music*
B.S., Columbia University; A.M., Eastman School of Music in the University of Rochester.
- ELIZABETH H. KING (1956) *Assistant Professor of Business Administration*
B. S., Geneva College, M. Ed., The Pennsylvania State University.
- DONALD T. KYTE (1956) *Assistant Professor of Economics*
A.B., Wesleyan University; A.M., Boston University.
- ROBERT G. LEH (1959) *Assistant Professor of Political Science*
A.B., Lafayette College; M. A., University of Pennsylvania.
- CARRIE E. MILLER (1958) *Assistant Professor of Psychology*
B.S., Kansas State Teachers College; M.A., Ph.D., University of Denver.
- RUTH S. MORRIS (1954) *Assistant Professor of Business Administration*
A.B., The Pennsylvania State University; M.A., Bucknell University.
- NORMAN J. MYERS (1959) *Assistant Professor of Speech*
B.A., Hiram College; M.A., University of Illinois.
- NEALE H. MUCKLOW (1957) *Assistant Professor of Philosophy*
A.B., Hamilton College.
- HOWARD L. RAMSEY (1955) *Assistant Professor of Religion*
A.B., B.D., Southern Methodist University.
- DONALD GEORGE REMLEY (1946) *Assistant Professor of Physics*
A.B., Dickinson College; M.A., Columbia University.
- LOGAN A. RICHMOND (1954) *Assistant Professor of Business Administration*
B.S., Lycoming College; M.A., New York University.
- MARY LANDON RUSSELL (1936) *Assistant Professor of Organ, Piano*
Mus.B., Susquehanna University Conservatory of Music; M.A., The Pennsylvania State University.
- JAMES W. SHEAFFER (1949) *Assistant Professor of Music*
B.S., Indiana State Teachers College; M.S., University of Pennsylvania.
- MICHAEL M. WARGO (1957) *Assistant Professor of History*
A.B., M.A., Bucknell University.

Instructors

- DAVID C. ANDERSON (1959) *Instructor in Business Administration*
B.S., M.S., University of West Virginia.
- IAN F. JAMES (1958) *Instructor in Art*
M.F.A., Syracuse University.

- JANE K. LANDON (1956) *Instructor in Piano*
A.B., Lycoming College.
- GERTRUDE B. MADDEN (1958) *Instructor in English*
A.B., University of Pennsylvania.
- MARION E. MAYNARD (1959) *Instructor in English*
A.B., Bucknell University.
- JOSEPH R. PECK, II (1956) *Instructor in English*
A.B., University of Pennsylvania; A.M., University of Florida.
- NELSON PHILLIPS (1959) *Instructor in Physical Education*
B.S., Springfield College.
- RICHARD T. STITES (1959) *Instructor in History*
B.A., University of Pennsylvania; M.A., George Washington University.
- SALLY F. VARGO (1953) *Instructor in Physical Education*
B.S., The Pennsylvania State University.
- BUDD F. WHITEHILL (1957) *Instructor in Physical Education*
B.S., Lock Haven State Teachers College.

Lecturer

- DON L. LARRABEE (1945), Attorney at Law
Lecturer in Business Law
A.B., Allegheny College; Graduate Division of the Wharton School of The University of Pennsylvania; Law School of The University of Pennsylvania.

Part Time Instructors

- CLARENCE W. GREEN *Assistant Football Coach*
B.S. in Phys. Ed., Lock Haven State Teachers College; M.S. in Ed., Bucknell University.
- EVA KELLER *Education*
B.S., M.Ed., The Pennsylvania State University.
- RUTH S. MARVIN *Medical Secretarial*
R.N., St. Camillus School of Nursing, Kalamazoo, Michigan.
- ROBERT MORRIS *History*
A.B., Lycoming College.
- ROLLIE MYERS *Assistant Football Coach*
B.S. in Phys. Ed., Lock Haven State Teachers College.
- ROBERT D. SMINK *Education*
B.S., M.S., Bucknell University.

Administrative Assistants

NORA L. BARLETT	<i>Library Assistant</i>
EMILY C. BICHLER	<i>Secretary to the Business Manager</i>
CLARA E. FRITSCHER	<i>Accountant</i>
NELLIE F. GORGAS B.S., Lycoming College.	<i>Secretary to the President</i>
MARGARET E. HEINZ	<i>Bookstore Assistant</i>
WELTHA P. KLINE	<i>Secretary to the Librarian</i>
RUTH E. KOHR	<i>Faculty Secretary</i>
FANNIE J. MCCLOSKEY	<i>Resident Counsellor, Rich Hall</i>
HELEN K. MCCracken B.S., Bloomsburg State Teachers College.	<i>Secretary to the Assistant to the President</i>
SUE L. NEW	<i>Head Resident, Rich Hall</i>
ELIZABETH L. OROZCO	<i>Secretary to the Registrar</i>
RUTH E. PERRY B.S., Lycoming College.	<i>Secretary to the Director of Public Relations</i>
MARIAN L. RUBENDALL	<i>Secretary to the Dean of Students</i>
JO ANN SPENCER	<i>Assistant in Treasurer's Office</i>
DOROTHY J. STREETER	<i>Bookstore Manager</i>
HELEN J. WADLOW	<i>Secretary to the Dean of the College</i>
VIVIAN YOUNKIN	<i>Supervisor of Housekeeping</i>

Medical Staff

FREDERIC C. LECHNER, M.D. B.S., Franklin & Marshall College; M.D., Jefferson Medical College.	<i>College Physician</i>
ROBERT S. YASUI, M.D. M.D., Temple University.	<i>College Surgeon</i>
RUTH J. BURKET, R.N. Hamot Hospital School of Nursing.	<i>College Nurse</i>
MARY JO BIGLEY	<i>Assistant Nurse</i>

Purpose and Objectives

Purpose and Objectives

Lycoming College devotes itself to the vocation of humanity: the vocation that enables man to become aware of what it means to love truth, goodness, and beauty, by

fostering free inquiry and learning in a curricular experience that provides basic knowledge of the cultural, social, and natural world,

developing searching, critical, and creative attitudes of mind, encouraging cultural explorations essential to a free society,

affirming the Christian faith as a valid interpretation of the vocation of humanity,

developing an appreciation for the values of social, mental, and physical well-being, and

preparing students for professional and vocational opportunities that may be pursued upon a more humanitarian level because of foundations laid by a strong liberal education.

“Vocation of humanity” suggests that the primary concern of The College is human life and living. We find this concern manifesting itself, in a Christian setting, as an affirmation of the fundamental dignity and worth of all human beings. The entire program of The College is directed toward fulfillment of objectives that seek to fit young men and women for “the living of these days,” in a global society in which the priceless commodity is human life. The program is described in some detail in the following sections of this catalogue. Under the titles, Campus Life, Academic Program and Curricula, reference is made to the locale, history, traditions, activities and academic program of The College.

Campus Life

History and Tradition

Lycoming is a new name for an old institution. The original school was founded in 1812 and was known as Williamsport Academy. It was the first educational institution in Williamsport, and as such confined its efforts to teaching the young. Later, as the public school system developed, the Academy elevated its program to include the higher grades and college preparatory work.

In 1848, under the patronage of The Methodist Episcopal Church, the Academy became Williamsport-Dickinson Seminary. The seminary status continued until 1929, when another change created Dickinson Junior College. During its years as a junior college, the institution forged a sound academic reputation, expanded its facilities and strengthened its faculty.

The increased demand for higher education following World War II prompted another change in 1948 when the junior college became a four-year liberal arts and sciences college and changed its name to Lycoming. The name Lycoming is a corruption of the Indian word "lacomic"—from the vocabulary of the Monsey (Muncy) tribe—meaning "Great Stream." Lycoming is a name that has been common to north central Pennsylvania since colonial times and is an appropriate one for a school that has been, and is continuing to be, influential in the educational, cultural and spiritual development of the area.

The foregoing brief history is evidence of one aspect of Lycoming's tradition: that of growth and evolution to meet the demands of our changing society and culture.

Through more than a century of its history, the College has had the stabilizing influence of The Methodist Church, another aspect of its tradition. The evolution of Lycoming from its origins to its present status has been accomplished without abandoning its convictions that the Christian philosophy of life is the proper leaven of higher education. Lycoming strives to foster a Christian atmosphere in all aspects of the college program, and to stress the development and practice of a Christian way of life.

Since Lycoming is a small college—850 students—it has been able to continue its tradition of friendliness and fellowship among students, faculty and administration. In this personalized setting, students can be motivated—indeed, inspired—to apply themselves more diligently and to develop their potentialities more completely. Throughout, Lycoming emphasizes the importance and value of scholarship, intellectual curiosity, critical evaluation, and integrity.

Religious Traditions

Lycoming College is owned by the Preachers Aid Society of The Methodist Church. Its faculty and students express their religious convictions through membership and participation in almost thirty Protestant denominations and the Roman Catholic and Jewish faiths. It is the purpose of the College to provide its students with significant opportunities for the expression of religious faith. Each student is encouraged to be loyal to the church of his choice in the city of Williamsport by his attendance and support.

Lycoming College firmly believes in Christian higher education. In numerous ways it provides opportunities and guidance for students who wish to develop and practice the Christian philosophy of life. This is accomplished in the following ways:

Through the Department of Religion, established by the late Honorable M. B. Rich, for eighteen years President of the Board of Directors.

Through the weekly Chapel Program, which brings to the campus outstanding religious leaders who share with the Student Body the best in contemporary religious thinking.

Through the Director of Religious Activities, who is a member of the Faculty with teaching responsibilities. He is responsible for co-ordinating the religious activities of the College and provides counselling in the area of religion to students who request his assistance. He serves as Executive Secretary to the Religious Life Council.

Through the Religious Life Council, the student organization responsible for co-ordinating religious groups on the campus. It is composed of representatives from all student religious organizations, the Student Government, Faculty and Administration, and the local clergy.

Through the annual week of religious emphasis, usually held in February. Outstanding Christian leaders come to the campus each year to meet with the students and to discuss with them questions of importance in some aspect of religion, with the objective of stimulating discussion and interest in this area of campus life.

Through religious organizations which include Methodist Student Movement (meets weekly at the College Church which is Pine Street Methodist Church located at the intersection of Pine Street and Edwin Street), John Wesley Club (Methodist), Catholic Club, Canterbury Club (Episcopal), Lutheran Club, and Icthus Club, (Baptist and Presbyterian). Each of these groups meets regularly to provide members of its faith with the opportunity to participate in activities of common interest.

Locale

Williamsport, home of Lycoming College, is located on the West Branch of the beautiful Susquehanna River in north central Pennsylvania. Its population is approximately sixty-five thousand, and its industry is diversified.

Williamsport is in an area that is famous for its beautiful mountain scenery, and fine outdoor recreational facilities. Such sports as hunting and fishing attract thousands of enthusiasts from other areas annually. The community has a fine public school system and a civic choir; it has two large parks and numerous playgrounds and is generally oriented to provide exceptional opportunities for youth. There are eighty-eight churches, representing a large number of denominations and convictions.

Williamsport is within two hundred miles of Washington, D. C., Baltimore, Philadelphia, New York City, Albany, Syracuse, Buffalo, Rochester, and Pittsburgh. It is easily accessible by air, train, bus, or automobile. Allegheny, Capital and Trans World Airlines have forty-two flights daily, with passenger service direct to Buffalo, Cleveland, Washington, D. C., Boston, Pittsburgh, New York City, and Philadelphia. The Pennsylvania Railroad provides daily passenger service to all major cities. Greyhound Lines and Edwards Lakes-to-Sea System run busses to all major cities daily. Williamsport is on U. S. Highways Nos. 15 and 220, and on State Highway No. 14.

Extra-Curricular Activities

The non-academic educational experiences are an important part of every student's life at Lycoming College. They are provided on the assumption that everything a student does has a purpose and it is the desire of Lycoming that these purposes be a major means of helping the student achieve the goals of the College. The program is planned in conjunction with the Student Government Association and with the assistance and counsel of faculty. It is the objective to provide a sufficient and varied program that will enable every student to participate in his particular area of interest, and to find full expression in wholesome social experiences.

Student Government

Self-government by students in certain areas of campus life is an objective achieved through the Student Government Association of Lycoming College. The Student Council is the legislative body of the Association. The officers of the Student Government Association are elected from the entire student body. Members of Student Council are elected by classes and certain other organizations.

The Council is responsible for a large part of the social program of the College. All dances are co-sponsored with other organizations, and the Dance Committee plans informal dances on week-ends when no other activities are scheduled. Student Council has been delegated responsibility for campus parking. It has established its own regulations and enforces them through paid traffic officers and the Student Court, composed of four Student Government members.

The Social Calendar Committee is responsible for approving the scheduling of all social events by any group. Its responsibility is to prevent conflicts in scheduling for the benefit of all groups concerned.

Homecoming Week-end, Christmas activities, Spring Week-end, Crystal Ball, Turkey Trot, Mardi Gras, and Spring Carnival are some of the major activities sponsored by Student Government during the year.

Other governing groups on the campus are the Inter-Fraternity Council, the Men's Dormitory Council, the Women's Dormitory Council, and Associated Women Students. Each operates under limited authority in situations related to its specific area.

Social and Cultural Influences

Lycoming aims to give its students every possible opportunity to become familiar with the best social customs and usages. The development of poise and ease in handling oneself in social situations is a major objective in the program of the College. These experiences are provided through the dining room, coffees and receptions, and other social functions.

The Artist and Lecture Series presents eight performances of the best obtainable talent in music, drama, the dance, and lecture. The Series is presented to provide wider cultural experiences than might normally be available to the student. Although the Series is entertaining, its prime objective is to acquaint the student with the arts and the humanities as they are performed on a professional level.

College Publications and Communications

There are six official college publications. Each is devoted to a specific area of college life, and is designed to communicate to selected groups of the college constituency.

The Bell, official student newspaper, is published weekly, and is devoted to interests of the student body, reporting current campus events.

The Arrow, college yearbook, is published in May and presents a record of student life during the current academic year.

The Guidepost, published annually by Student Government, is a student handbook of regulations and miscellaneous information. It is designed primarily for new students and is published annually and distributed to them prior to their arrival on the campus.

The Alumni Office publishes *The Alumni Bulletin* three times yearly. It is designed to keep the alumni informed of current happenings at the college and on alumni activities. *The Newsletter* is published periodically, between issues of the *Bulletin*.

The Student Bulletin and *The Faculty Bulletin* are published weekly by the office of the Dean of the College.

The Campus Radio Station broadcasts nightly from 7:00 p.m. until midnight on a wired circuit to Wesley Hall, Rich Hall and Old Main. The station broadcasts study music, news commentary, sports results, and special programs of interest to the student body.

All of the above publications and the radio station are staffed with students interested in gaining experience in writing and in business practices.

Campus Clubs and Organizations

A variety of organizations on the campus provides opportunities for social and intellectual growth. These groups are organized and conducted by students in cooperation with faculty sponsors or advisers.

Some of the groups are: The International Relations Club, which is the campus focus for study and discussion of world affairs; the Student Education Association of Pennsylvania, which gives prospective teachers current information on the teaching field and an insight into the problems of education; the Drama Club, which stages a variety of dramatic productions including their own original work; The Varsity Club, composed of lettermen, promotes college spirit in sports; the Pre-Medical Society for pre-medical students; the Engineering Society for those aspiring to be engineers; and the Business Club for students majoring in business administration. The Outing Club is open to all students who enjoy the out-of-doors, nature study and hiking; the Philosophy Society provides an outlet for all students interested in the informal discussion of philosophic concepts; the Spanish Club and German Club study the language and the life and culture of the countries; and the Associated Women Students sponsor parties and teas for students, faculty and parents.

Fraternities

Five Greek letter groups on the campus provide a means of bringing to men students the advantages of national fraternal organization as well as group housing. They include the Psi Chapter of Kappa Delta Rho, Beta Lambda Chapter of Sigma Pi, Iota Beta Zeta Chapter of Lambda Chi Alpha, Epsilon Beta Chapter of Theta Chi, and the Nu Chapter of Alpha Gamma Upsilon.

The Inter-Fraternity Council coordinates the activities of the fraternities.

College Honors

Individual Honors

The Chieftain Award

The Chieftain Award is given to that senior who, in the opinion of the students and faculty, has contributed the most to Lycoming College through support of school activities; who has a pleasing personality and the ability to get along with his co-workers, both students and faculty; who has evidenced a good moral code; and who has a good scholastic standing.

Summa Cum Laude

The degree *summa cum laude* shall be conferred on students who have an academic average for their entire college course from 3.90 through 4.00.

Magna Cum Laude

The degree *magna cum laude* shall be conferred on students who have an academic average for their entire college course from 3.50 through 3.89.

Cum Laude

The degree *cum laude* shall be conferred on students who have an academic average for their entire college course from 3.25 through 3.49.

A student must have passed at least ninety semester hours at Lycoming College to be eligible for College Honors.

Honor Societies

Sachem Honor Society

Any graduating student who has attended Lycoming College for at least three years and has attained a point average of 3.50 or above, or any junior student who has attended Lycoming College for three years and has attained a point average of 3.70 or above is eligible for membership.

Alpha Psi Omega

This national honorary society is for dramatic students. Worthy students are elected to the fraternity as a reward for their efforts in participating in the plays staged by the Lycoming College Players.

Phi Alpha Theta

This national honorary society is for those students interested in History. To be eligible, students must have completed, with a grade average of at least 3.1, a minimum of 15 semester hours in history. For two-thirds of the remainder of the work there must be a grade average of at least 3.0. The local chapter is Zeta Zeta.

Students interested in history who do not meet these standards are eligible for associate membership.

Tau Beta Sigma

This national honorary sorority for college bandswomen elects to membership each year those women who have shown outstanding performance with the college band. Lycoming's chapter is Beta Epsilon.

Kappa Kappa Psi

Each year men students demonstrating outstanding band musicianship are elected to membership in the Gamma Tau chapter of this national honorary fraternity for college bandsmen.

Who's Who in American Colleges and Universities

The Senior class elects members to Who's Who. The Senior members are honored by having their names appear in the annual issue of the national publication, *Who's Who in American Colleges and Universities*. Election is on the basis of a satisfactory scholastic average, personal character, service to the college, and outstanding leadership in extra-curricular activities.

Iruska Honor Society

No more than seven juniors are selected annually for membership in Iruska, which honors juniors active in extra-curricular activities, who best represent the spirit of campus leadership at Lycoming College.

General Programs and Rules

Freshmen Orientation

A period preceding the opening of the Fall Term is set aside to provide freshmen and transfer students with assistance in making the adjustment to a college environment. A special program consisting of placement testing, interviews with faculty counselors, general orientation meetings, formal convocations, registration, and social and recreational activity is prepared for this period. Faculty and selected upperclassmen are present to assist the new student during Orientation Week.

All new students are required to participate in this program. The schedule is mailed to each freshman and transfer student during the summer.

Freshmen Customs

Certain traditions and customs have been established for freshmen. They are designed to help the freshmen become acquainted with the history and customs of Lycoming College. Each regulation has a purpose in the development of the individual freshmen into a class group which is a part of the total college community. The customs freshmen will be expected to observe are printed in the *Guidepost*.

Intercollegiate Sports

The college offers an attractive program of intercollegiate athletics and encourages wide participation by its students. It is a member of the Middle Atlantic Athletic Conference and the National Collegiate Athletic Association. Lycoming annually meets some of the top-ranking small college teams in the East in athletic competition. Contests are scheduled with other colleges in football, basketball, wrestling, baseball, tennis, golf, swimming, and soccer.

Intramural Athletics

An extensive and diversified program of intramural athletic competition affords opportunity for every student to participate in one or more sports of his own choosing.

Sports for men include touch football, basketball, volleyball, bowling, badminton, table tennis, tennis, softball, golf, wrestling, swimming, horseshoes, track and field.

Sports for women include competition in basketball, volleyball, bowling, badminton, table tennis, tennis, softball, swimming, field hockey, archery, and rhythmical activities. Field days are arranged with WAA groups of other colleges and universities during the school year.

Required Health Information

The following data is required by the College Physician: (1) a medical report signed by the candidate's physician and by his parent or guardian; and (2) a card signed by the physician indicating the basis for any necessary restriction in, or exclusion from, the physical education activity program.

Veterans are exempt from the second requirement.

In connection with the physical examination, all entering students must have a chest X-ray.

Infirmiry Service

The infirmiry fee, included in the over-all activities fee, covers the following medical service: the college nurse holds infirmiry hours each day, except Sunday, that the college dormitories are open; she is also available for first aid treatment and will call to the attention of the college physician any case demanding special treatment.

Such service, however, shall not be interpreted to include X-rays, surgery of more than minor nature, care of major accidents on or off campus, immunization for colds, examination for glasses, doctors' calls, cases of serious chronic disorder, or other extraordinary situation.

Special nursing service and special medicines and prescriptions will be at the expense of the student. Parents will be notified by the College when students are confined to the infirmiry with serious illnesses.

Student Insurance

By a special group plan, our students are able to secure accident and sickness insurance covering medical and hospital expenses whether at home or at college during one academic year. Reimbursement will be made up to \$500.00 for each accident. All students are advised to carry this protection.

Counselling Program

An advantage of a small college is the rich experience gained by the close association of students and faculty. In addition to this valuable personal relationship, which affords students the opportunity to discuss various problems with their instructors, Lycoming has a well-rounded counselling program for its students. Under the direction of the Dean of the College, this program includes areas as represented by the Dean of Students, the Dean of Women, the Director of Counselling and Faculty Advisers.

The program begins with a personal interview between the Director of Admissions and the candidate for admission. These interviews are sufficient in length to obtain a picture of the student, his background, and his plans for the future. When the student enters the College as a Freshman, he is assigned to one of a group of faculty counselors who are released from part of their teaching responsibilities in order to advise Freshmen. The new student will meet with the counselor at least four times during the year, with other meetings being arranged as the need arises. The Freshman will find his professionally trained counselor eager to guide and assist in the many problems that confront the new college student. Incorporated into the Freshman Counselling Program is the opportunity to take aptitude and psychological examinations. On the basis of preparatory or high school grades, interest inventories, and other psychological tests, the student, with the help of the counselor, will be able to make intelligent decisions concerning educational and vocational choices. Additional counselling is available to the student in the area of academic, personal and emotional adjustment. Where specific need is indicated by the student, the Director of Counselling is prepared to offer intensive personal adjustment counselling.

Placement Service

The Placement Bureau maintains a register listing the abilities and major interests of students and recent alumni. Literature from businesses and industrial associations is kept available. Consultations with the Placement Director assist students toward wise selection of a profession. Interviews are then scheduled at which students meet and confer with representatives from companies in which they are interested. Lycoming graduates are usually placed before commencement.

There are many diversified businesses in Williamsport. These firms give students at Lycoming splendid opportunities for visits, tours, and conferences. They also afford the student body a variety of part-time jobs during each college session. The Placement Bureau serves as a clearinghouse for part-time employment and can usually find work for every student needing it.

Provisions for Veterans

Lycoming is fully approved for the educational program for Veterans under Federal Public Laws 550, 634, and 894.

Residence

All single students who do not reside at home are required to live in the college residence halls and eat their meals in the college dining room. Special diets cannot be provided. Exceptions to these regulations can be approved only for the purpose of working for room and/or board or to live with relatives. Requests for exceptions must be submitted in writing to the Dean of Students or the Dean of Women. The petition must include the name of the householder and the address where the student wishes to live.

Members and pledges of social fraternities are required to live in their houses when space is available. All fraternity members eat their meals in the college dining room.

Residents furnish their own linens, towels, blankets, bedspreads, and wastebaskets. Residents of fraternities and Old Main also furnish their own desk lamps. Drapes are provided in Rich Hall, but are *not* provided in Wesley Hall, Old Main or fraternity houses.

Linens, towels and blankets may be rented from College Linen Supply, Inc. Information is sent to all resident students concerning this service following their assignment to a room.

Women's Residence

Resident women students live either in Rich Hall or Rich House. The latter is the honor house for upperclass women. The main residence for women is Rich Hall, which was built in 1948 and will accommodate 114 women. Rooms are arranged in suites of two rooms with two students living in each room. Each four students have private bath facilities.

Also located in Rich Hall are the women's infirmary, recreation room, television room, and laundry facilities. Lounges, mail room, telephone switchboard, and the office for the Head Resident are all located on the first floor.

All resident women students are members of the Resident Women's Association of Lycoming College. They establish standards and regulations for community living and endeavor to assist each new student in her adjustment to living in a college dormitory. All dormitory activities are under the supervision of the Dean of Women.

Men's Residence

All resident men live in Wesley Hall, Old Main, or fraternity houses. Upperclassmen have priority in assignment of all rooms, except for 48 places reserved for freshmen on the third floor of Wesley Hall. Rooms for freshmen are assigned according to the date the room reservation fee of \$50.00 is paid following notification of admission.

All rooms are for double occupancy. Rooms are furnished with a single bed, pillow, a desk, desk chair, and a dresser for each occupant. In Wesley Hall the furniture is built into the room, except for the bed, and a light is provided over the desk. Window shades are provided in all rooms. It is advisable to wait until after arriving on the campus to purchase drapes and bedspreads, if desired.

Discipline

The College expects all of its students to accept the responsibilities required of citizens in a free democratic society. The rules and regulations of the College are designed to protect the rights of every member of the community against encroachment by individuals. The limitations which are imposed upon the activities of individuals are established for the common good of the entire college community.

Students who are unable to demonstrate that they can accept this responsibility or who are antagonistic to the spirit and general purpose of the College, or who fail to abide by the regulations established by the College may be dismissed or requested to leave the College at any time during the academic year.

Regulations

Certain regulations have been established by the College. In addition to those published here, specific rules are furnished each student upon matriculation, or are published in the *Guidepost*.

Announcements during the academic year may amend or supplement the catalogue regulations.

Alcoholic Beverages

The position of Lycoming College regarding the use of alcoholic beverages by its campus constituency is based upon the official position of The Methodist Church, which is stated in Paragraph 2022 of the Discipline of The Methodist Church, 1956 edition, and upon the premise that *any* activity not contributing constructively to the development of a mature citizen in the college community is inconsistent with the aims and ideals of the College.

Specific rules and regulations regarding the use of alcoholic beverages are based on the above statement and are consistent with the statutes of the Commonwealth of Pennsylvania in regard to the purchase and use of alcoholic beverages by persons under 21 years of age.

The following situations may result in dismissal from the College or other disciplinary action.

1. The possession and/or use of alcoholic beverages inside any college building, or on college property, including the storage of such beverages in automobiles on the campus.
2. The use of alcoholic beverages by women, regardless of age, while they are resident students of the college and are not under the chaperonage of their parents.
3. Returning to the campus in an intoxicated condition resulting in an inability to control behavior so that it is acceptable at all times.

4. The illegal purchase or consumption of alcoholic beverages by male students of the college under 21 years of age.
5. The provision of alcoholic beverages by legally qualified male student purchasers to students under 21 years of age.
6. The possession and/or use of alcoholic beverages at any social function sponsored by the college or any organization of students, regardless of location.
7. The rental and/or use of non-college facilities where alcoholic beverages are present and/or are consumed by the students present. This includes party rooms, cabin parties, picnics, etc.
8. Any situation resulting in behavior reflecting discredit upon the college which has resulted from the consumption of alcoholic beverages. This includes public intoxication, situations where police are involved, or where public notice is attracted and reported to college officials.
9. Any situation not covered specifically under the above regulations which indicates that the students are deliberately seeking to avoid the responsibility for the violation of regulations by individuals or groups.
10. Any violation of the Liquor Control Act, as amended, of the Commonwealth of Pennsylvania.

These rules and regulations have been formulated for the protection of the reputation and the well-being of the college community. Their observance is expected of every student of Lycoming College. It is assumed that a willingness to observe these regulations is implicit in the acceptance of membership in the Lycoming College community.

Automobiles

All freshmen resident male students and all women resident students may not have in their possession or operate (unless in the company of their parents), motor vehicles in the City of Williamsport, while they are in attendance at Lycoming College. Veterans may petition the Dean of Students for permission to have automobiles. Conditions will be established for their use if permission to have an automobile is granted.

Parking privileges on the campus are reserved for students and faculty who have registered their automobiles and have been issued parking stickers for their cars.

Firearms

No resident student may keep firearms or ammunition in the place of his residence or stored in an automobile on the campus. Facilities for storing firearms for hunting purposes are available in the Dean of Students' Office.

Gambling

The use of money or stakes representing money in card games or other games is prohibited while a student is in residence at the College.

Dormitories

Dormitory students are responsible for the furnishings and the condition of their rooms. Inspections of rooms and their contents are made periodically. Charges will be assessed for damages to rooms and furniture.

Dormitory students are expected to vacate their rooms during the vacation periods when the dorms are closed.

Regulations regarding quiet hours for study are established by the appropriate Dorm Councils and are published in the *Guidepost* and on the dormitory bulletin boards.

Money and Valuables

The College accepts no responsibility for loss of valuables due to theft, fire, or other causes. Students may deposit money in the Treasurer's Office. Withdrawals are permitted on Friday afternoons, only.

Marriage

Students who change their marital status are requested to notify the Dean of Men or the Dean of Women prior to their marriage.

Married women students may not live in the college dormitories. If a woman student marries while a resident student, she must vacate her room in the residence hall.

Academic Program

Admissions

Admissions Policy

The policy of Lycoming College is to admit applicants who, in the opinion of the Admissions Committee, are best qualified to profit by the opportunities offered by the College, and who can at the same time make positive contributions to undergraduate life. Due consideration is given not only to academic attainment, as evidenced by school records and examinations, but also to the applicant's character, personality, and interest and accomplishments in extra-curricular pursuits.

Admission to Lycoming College is on a competitive basis. Early application, while encouraged, does not assure admission.

Application Procedure

Persons desiring to apply for admission should request official forms from the Director of Admissions.

The Admissions Office compiles a personal file for each applicant and the following items must be submitted before final acceptance is approved:

1. Application for Admission and secondary school record on forms supplied by the College. A registration fee of \$10.00 must accompany each application. This fee is not refundable.

2. A small recent photograph (approximately 2" x 3") of the applicant.

3. A personal interview with the Director of Admissions or an appointed representative.

4. The Scholastic Aptitude Test of the College Entrance Examination Board. Applicants wishing to enter the College in September should arrange to take these examinations no later than March of their senior year.

The responsibility for arranging to take these examinations rests with the applicant. However, the Director of Admissions will be glad to advise any applicant on this matter if requested.

Following receipt of the above items, the Admissions Committee will determine those applicants who can be accepted. All applicants will be notified accordingly by letter as promptly as possible. Action of the Admissions Committee must be regarded as final.

The College Entrance Examination Board Tests

During the academic year 1959-60, the College Entrance Examination Board will administer the Scholastic Aptitude Tests on each of the dates listed below. The deadline for application is approximately one month prior to the test date.

Date of Tests

Saturday, December 5, 1959	Saturday, March 12, 1960
Saturday, January 9, 1960	Saturday, May 21, 1960
Saturday, February 6, 1960	Wednesday, August 10, 1960

Applicants should consult with their high school counsellors concerning the details of registering for the tests, or write directly to the College Entrance Examination Board, P. O. Box 592, Princeton, New Jersey, requesting the Bulletin of Information. This bulletin, obtainable without charge, contains rules regarding applications, fees, reports, and the conduct of the tests; lists of examination centers, and an application blank bound in it. The completed blank should be returned to the College Board office promptly. The applicant will then be supplied with further information about the tests and his ticket of admission to the test center he has specified. The results of the tests are sent directly to the college(s) listed by the applicant, but not to the applicant. Results are normally received by the colleges three to four weeks following the test date.

Admissions Requirements

The usual evidence of academic preparation to enter Lycoming College is the satisfactory completion of 15 units of high school work as follows:

	<i>English</i>	<i>History</i>	<i>Math</i>	<i>Science</i>	<i>Elec.</i>
A.B. Degree	3 (4 yrs.)	1	2	1	8
B.S. Degree	3 (4 yrs.)	1	2	1	8

Cooperative engineering students and mathematics majors must include plane geometry as one of the two units of mathematics.

A letter of recommendation from the applicant's private teacher and/or high school music supervisor should accompany the application of music majors.

Early Decision Plan

Lycoming College has adopted an Early Decision Plan which will permit the Director of Admissions to notify well qualified candidates at the beginning of their senior year in high school that their admission to the college is assured upon graduation. Further information concerning the Early Decision Plan or the regular programs of study offered at Lycoming can be obtained by writing to the Director of Admissions.

Advanced Standing

A limited number of students with advanced standing may be admitted to Lycoming each year. The determining factors in considering such applicants will be their academic records at the previous college, their field of concentration, and the reasons prompting their desire to transfer. All transfer applicants must show evidence of honorable dismissal from their previous college(s), must submit an official transcript of all work taken at other colleges, copies of their current catalogues, and must come to the Campus for a personal interview. A student admitted with advanced standing is required to be in residence at Lycoming for at least one academic year. Transfer students must satisfy the College graduation requirements to be awarded a degree.

Admission to Summer Sessions and Evening Classes

Persons desiring admission to summer sessions or evening classes should apply to the Director of Admissions. All candidates for degrees must meet the same entrance requirements as those attending regular session day classes.

Applicants who hold degrees from other colleges or universities will be admitted as special students. Such applicants must present written evidence stating the field of concentration, the degree, and the date conferred.

All other applicants who desire admission to specific courses will be considered on the basis of preparation and experience.

Admissions Office

The Admissions Office is located on the Campus on the first floor of the Old Main Building. The office is open Monday through Friday from 9 a. m. to 5 p. m., and on Saturday from 9 a. m. until noon. Appointments for interviews may be arranged by writing or calling the office. The telephone number is Williamsport 3-9411, Extension 12.

All applicants are invited to visit the Campus if possible and to inspect the facilities of the College and meet with some of its officials. Appointments are not required, but visitors are advised to arrange for them if they wish to see particular members of the administrative staff or faculty.

Standards

Classification of Students

Admission to the Freshman Class: See requirements for admission to Lycoming College, Page 39.

Admission to the Sophomore Class: Freshmen qualify for admission to the sophomore class after completing at least 23 semester hours of college work and achieving a cumulative grade point average of at least 1.8. Those who do not qualify for admission to the sophomore class shall retake recommended freshman courses in which they are deficient.

Admission to the Junior Class: Sophomores qualify for admission to the junior class after completing at least 54 semester hours of college work and achieving a cumulative grade point average of at least 1.9. Satisfactory performance in written English, as judged by a proficiency examination administered by the English Department in the second semester of the sophomore year, is also a condition of admission to junior standing.

Admission to the Senior Class: Juniors qualify for admission to the senior class after completing at least 85 semester hours of college work and achieving a cumulative grade point average of at least 2.0. No junior may enter senior classification until all freshman, sophomore and junior required courses, including foreign language where applicable, have been passed.

Grading System

A credit hour is defined as one hour of classroom work, or the equivalent, each week during a full term of sixteen weeks. Ordinarily, two hours of laboratory work are rated as one credit hour.

Lycoming College uses the letter system of grading. "A" indicates work of highest excellence showing a superior grasp of the content, as well as independent and creative thinking in the course. "B" signifies better than average achievement wherein the student reveals insight and understanding. A grade of "C" is given for satisfactory achievement where the work has been of adequate quality and quantity. "C" is generally regarded as an average grade. A "D" grade indicates that the student has met the minimum require-

ments of the course. "F" is the failing grade, and the student receives neither credits nor quality points for courses carrying an "F" grade. A student must repeat all required courses for which he receives an "F" grade.

Scholastic rank is determined by the quality point system. A grade of "A" carries 4 quality points per semester hour. "B" carries 3, "C" carries 2, "D" carries 1, and "F" carries 0. A student's scholastic or grade-point average is computed by dividing total quality points earned by total credits scheduled.

Requirements for Graduation

The College offers courses of study leading to the degrees of Bachelor of Arts and Bachelor of Science. For either degree the minimum requirements are:

120 academic hours, including required courses and one major of at least 24 semester hours.

Cumulative grade point average of at least 2.0 in all college work at Lycoming College.

Four semester hours credit in Physical Education to be taken in the first two years (not included in the 120 academic hours).

Chapel credit for each fall and spring semester of attendance at Lycoming College.

All financial obligations incurred at the College must be paid.

The work of the final year is to be taken at this College, except in the case of students enrolling in the cooperative programs in engineering or forestry described on page 50. Exceptions may also be made in the Medical Technology and the Nursing programs, pages 54-55.

Probation and Dismissal

Freshmen whose grade-point average is 1.5 or lower in the first semester are placed on academic probation. Failure to achieve a cumulative grade-point average of at least 1.4 for the freshman year will result in academic dismissal.

Any student beyond two full semesters' work whose grade-point average is below 1.5 for a semester or whose grade-point average is between 1.5 and 2.0 for two successive semesters is placed on academic probation. Removal from academic probationary status is accomplished by the student's earning a grade-point average of at least 2.0 in the succeeding semester. Academic dismissal will

result if the student has not succeeded in removing himself from probation in the semester succeeding.

Probation rules do not prevent the immediate dismissal of any student who establishes an exceptionally low academic record in any semester. The College also reserves the right to dismiss any student at any time if the Administration considers such action to be in the best interests of the student or college.

Where unusual or extenuating circumstances seem to warrant, academic dismissal from Lycoming College may be reviewed by the Dean of the College.

Attendance

The program at Lycoming is built on the assumption that there is value in class and assembly and chapel attendance for all students. Therefore, all students are expected to attend all classes and a specified number of assembly and chapel exercises.

Specific regulations as to permissible absences and penalties for excessive absences are announced from time to time. Responsibility for learning and complying with these regulations rests with the student.

Normal Student Load

Candidates for degrees and certificates are expected to register for a normal semester hour load during each semester in attendance at Lycoming College. The normal load per semester at Lycoming is thirteen to sixteen semester hours of academic work. Grade-point average values used to determine probation or dismissal are based upon a minimum of at least twelve hours of academic work per semester.

Overload

Students who wish to carry more than the normal load are charged \$30.00 per credit hour. A schedule of more than seventeen hours of academic work may be taken if the student has an average of 3.0 for all previous work and obtains written permission from the Dean of the College.

Degrees

Lycoming College confers either the *Bachelor of Arts* degree or the *Bachelor of Science* degree. Consistent with its aims of providing for the student the richest possible intellectual background for the Christian life, these degree programs are oriented toward an understanding of areas of human experience in social science, natural science, humanities and fine arts. At the same time, every student is offered an opportunity for electing a major in some subject of concentration. For those students electing majors in business, medical technology, secretarial science or who are pursuing a college degree program in conjunction with nurses' training, the Bachelor of Science degree is specified. For those students electing majors in other subject fields, the Bachelor of Arts degree is indicated.

Degree Requirements: Bachelor of Arts

A candidate for the Bachelor of Arts degree must meet the following basic or core course requirements:

English Composition	6 hours
Literature	6 hours
Foreign Language	6 or 12 hours
Philosophy and Religion	6 hours
Appreciation of Art and Music	6 hours
Western Civilization	6 hours
American History	6 hours
General Psychology	3 hours
American Government	3 hours
A Laboratory Science	6-10 hours

In addition, the candidate for the Bachelor of Arts degree must present, for a major, at least 24 semester hours credit from one of the following fields: art, biology, chemistry, economics, English, French, German, history, mathematics, music, philosophy, political science, psychology, religion or sociology. In specialized curricula, the major may be a combination of two or more departments' requirements.

The remainder of the normal 120 semester hours required for graduation will be met by the election of courses upon recommendation of the major area advisor. The program of electives will be designed to fit the needs of individual students.

Every candidate for the Bachelor of Arts degree must also present 4 semester hours credit in physical education. Unless otherwise specified, these credits in physical education will be earned in the freshman and sophomore years.

Foreign Language Requirement

All students who are candidates for the Bachelor of Arts degree must meet the requirement of four semesters of one of the following foreign languages: French, German, Greek, Russian or Spanish. Students may waive the first two semesters of the foreign language requirement and be admitted to intermediate studies if:

a. They have demonstrated a proficiency in the language by: (1) offering a satisfactory score in the Language Achievement Test of the College Board Examinations for that language; or (2) achieving a satisfactory score in an examination in the language offered by the appropriate department of Lycoming College.

b. They have passed an introductory course (two semesters) on the college level.

Students offering foreign language for admission to Lycoming College who are seeking the Bachelor of Arts degree and who do not meet the above requirements will be required to take another language or take the offered language at the beginning level without credit.

Degree Requirements: Bachelor of Science

A candidate for the Bachelor of Science degree must meet the following basic or core course requirements:

English Composition	6 hours
Literature	6 hours
Philosophy and Religion	6 hours
Appreciation of Art and Music	6 hours
Western Civilization or American History	6 hours
General Psychology	3 hours
American Government	3 hours
A Laboratory Science or Science Survey	6-10 hours

The candidate for the Bachelor of Science degree must present additional semester hour credits as specified by the department or departments within which he chooses to major. Every candidate for the Bachelor of Science degree must also present 4 se-

mester hours credit in physical education. Unless otherwise specified, these credits in physical education will be earned in the freshman and sophomore years.

The Requirement in English Composition

In cases where deficiency in the use of English is indicated in the incoming student's past record, he will be required to enroll in a non-credit course, English 50, Remedial English. In addition, all students will be expected to maintain a high level of proficiency in the use of English throughout their college years. Every student is required to attain a satisfactory score on an English proficiency examination to be administered in the second semester of the sophomore year.

Curricula

Purposes of the Curricula

Courses of study in Lycoming College are designed to fulfill two specific but interrelated purposes. The first is to acquaint the student with the liberal arts heritage of human civilization and the American nation, and the second is to provide him an opportunity to explore from an elementary to an advanced level various subject matter fields that may fit him for a life's vocation or direct him toward professional or graduate schools.

The curricula are organized so that the basic purposes may be fulfilled simultaneously within the normal 120 semester hours (8 semesters) of college work.

The Departmental Major

Electing a major in college work depends upon a variety of factors. Preparation for a specific vocation will very often determine the major. But for the student who does not have a specific vocational aim, the choice of a major, which can be deferred until the beginning of the junior year in some cases, must depend upon other factors. Not the least important of these are the student's interest and aptitude. Every effort will be made through the counselling service offered by the College to determine the range of interests and aptitudes and thereby enable the student to come to a decision that will be best for him.

Because education is an ongoing process that does not end at the completion of four years of college work, the student is encouraged, when aptitude and ability indicate probable success, to consider the opportunities available through graduate and professional studies. Listed below are a number of professional and graduate areas for which preparation may be secured at Lycoming College.

Programs of Study: Bachelor of Arts Degree

Complete four-year schedules for every major and every curriculum with detailed statements of required and recommended courses are available on request from the Director of Admissions or the Registrar, Lycoming College, Williamsport, Pennsylvania. In addition to those departmental majors listed under degree

requirements above, the following curricula are also offered. In general, these curricula involve major work in one or two departments. Their course requirements differ somewhat from the normal departmental major.

American Civilization Major

Recognizing the rich, intellectual heritage associated with the founding and subsequent development of the American nation, the Departments of English and History in Lycoming College have established a combined English-History curriculum which focuses attention upon American civilization. Here the uniqueness of American democracy, cradled and nurtured on this continent, is stressed throughout. In order to achieve the deepest insight into the American scene, both historical and contemporary, the curriculum includes, in addition to those freshman and sophomore history and English requirements, twenty-four hours of 300- and 400- level English and history courses including History 321-322, American Social and Intellectual History, six advanced hours in American literature and not more than nine advanced hours in either subject. Students desiring a thorough background in American civilization in preparation for graduate work, the Christian ministry, civil or foreign service or teaching will find this a most attractive and exciting curriculum.

Preparation for Dental School

At least three years of pre-dental study are suggested before entry into a college of dentistry. However, many students prefer to defer their matriculation in a dental college until they have earned a Bachelor of Arts degree. The pre-dental curriculum is organized around the basic courses in biology, chemistry and physics. Electing a major in one of the natural sciences is the usual procedure. The student should consult the catalogue of the college of dentistry to which he expects to apply so that all courses specifically required by that college of dentistry may be included in a well-tailored program at Lycoming College. The modern practitioner of dentistry is not just a dentist. He is a human being dealing with other human personalities and as such must be conversant in a great variety of human experiences. For this reason, the pre-dental curriculum will be liberally sprinkled with courses from virtually all areas of academic work. In addition to the science courses, therefore, the pre-dental student will include in his curriculum courses from the fine arts, humanities and social sciences, as well as a foreign language.

Cooperative Curriculum in Engineering

Consistent with increased attention being given nationally to engineering education, Lycoming College offers a cooperative curriculum combining the manifold advantages of a small liberal arts college with the training to be secured at an engineering school. By arrangement with Bucknell University and The Pennsylvania State University, the College offers a five-year program the first three years of which are spent at Lycoming and the final two at the engineering school. Upon completion of the first year at the engineering school, the student's record will be sent to Lycoming College, and if the work is satisfactory, Lycoming College will award the Bachelor of Arts degree. Upon the completion of the five-year program of studies, a Bachelor of Science in Engineering is awarded by the engineering school. Combined programs offer an opportunity for completion of studies in the following areas: Bucknell University: chemical, civil, electrical, or mechanical engineering; The Pennsylvania State University: aeronautical, civil, electrical, industrial, mechanical or sanitary engineering.

Prescribed work at Lycoming includes, in addition to the degree requirements outlined above, courses in chemistry, mathematics and physics. Because the demands of the engineering curricula may differ somewhat, a program of studies at Lycoming College will be designed for each student when his plans as to type of engineering program preferred have been finally fixed. The Director of the Division of Natural Science or a member of the teaching staff in the physical sciences will aid each cooperative engineering student in planning his program.

Cooperative Curriculum in Forestry

Lycoming College offers a program for forestry students which combines a strong liberal arts and science background with professional training in forestry at the Duke School of Forestry, Duke University, Durham, North Carolina.

The program as established is of five years' duration. A student electing to pursue this program of study will spend three years at Lycoming where he will meet the liberal arts degree requirements, including such subjects as English, a foreign language, biology, chemistry, physics, mathematics and economics.

Upon satisfactory completion of these three years' work at Lycoming College, the student will apply for admission to the Duke School of Forestry for one summer and two years of training in forestry. At the end of his first year at Duke, his record will

be sent to Lycoming College. If the work be satisfactory for this fourth year in college, Lycoming will award the Bachelor of Arts degree. Upon the satisfactory completion of the second year in forestry school, the professional degree, Master of Forestry, will be awarded by Duke University.

Preparation for Law School

Many colleges of law require a Bachelor of Arts degree for admission. The four-year degree program in pre-law at Lycoming College provides a background for the prospective student of law. Requirements include courses of enriching depth in political science and history, but also specified is a wide range of subject matter, designed to acquaint the student with the vast scope of human experience. Students may expect to major in economics, history, political science, social science or related fields as they prepare for matriculation in law school. Individual programs are tailored to fit the student's needs as well as to meet the specific requirements of the law school to which he applies for admission.

Preparation for Medical School

This curriculum is organized around a solid foundation of the basic courses in biology, chemistry and physics. Pre-medical students usually major in one of the natural sciences. The student should be aware of the specific pre-medical course requirements demanded by the medical school to which he will apply so that all such requirements can be fitted properly into his curriculum at Lycoming College. Consonant with suggestions of the medical schools, a wide range of subject matter from the humanities, social science and fine arts are also to be included in the curriculum. Some students may matriculate in a college of medicine after three years of pre-medical work, but the more normal procedure is to elect four years of pre-medical study and enter the medical college with a Bachelor of Arts degree.

Preparation for Theological Seminary (Christian Ministry)

Young men and women called to the Christian ministry or related vocations will find the pre-ministerial curriculum at Lycoming College an exciting and challenging opportunity. Basic courses as specified by the American Association of Theological Schools are virtually identical with the program of courses required for

a Bachelor of Arts degree at Lycoming College. Such courses offer a wide range of subject matter presenting many opportunities for the eager pre-ministerial student to acquaint himself with the broad scope of human experience. Preparation for seminary includes earning a Bachelor of Arts degree with a major in one of a variety of fields such as English, history, American civilization, philosophy or a social science. So that every student may have a curriculum designed to fit his individual needs, the offerings in the junior and senior year are largely elective. However, the choice of electives will depend upon the specific requirements of the theological school in which the student expects to matriculate.

Curricula for Divisional Majors

- a. The major in natural science consists of (1) first level courses in biology (101-102); chemistry (101-102), mathematics (101-102), physics (101-102), geology (101-102), and (2) two years beyond the introductory courses in biology, chemistry, mathematics, or physics.
- b. The major in social science consists of (1) 24 semester hours in one field of concentration and (2) 18 semester hours distributed among all four of the remaining social science fields.

Curriculum in Religion and Religious Education

Any student desiring extensive study in Biblical history and literature, the historical development of Christianity, and Christian doctrine, may major in religion. A qualified student planning to enter the vocation of religious education should, besides majoring in religion, elect 18-21 semester hours in prescribed psychology, education, sociology, and church music courses. This program of study, completely within the liberal arts curriculum, is to qualify graduates for work as Educational Assistants, or after graduate study in a theological seminary, as Directors of Christian Education. Interested students, or prospective students, are invited to contact Mr. Ramsey of the Department of Religion for further information concerning the opportunities, responsibilities and requirements of these and other church vocations.

Teacher Certification: Secondary Education (Junior and Senior High School)

The Department of Public Instruction of the Commonwealth of Pennsylvania requires that candidates for certifi-

cation offer a minimum of eighteen semester hours in the field of education. These must include Education 201, Introduction to Education, 3 hours; Psychology 309, Educational Psychology, 3 hours; Education 401, Practice Teaching, 6 hours; and 6 hours of electives in education. An additional requirement of a basic course in American and Pennsylvania history may be satisfied by History 201 or 202.

Teacher Certification: Elementary Education

The Department of Public Instruction of the Commonwealth of Pennsylvania requires that candidates for certification offer a minimum of thirty semester hours in the field of education. These must be taken from among courses in elementary education although Education 303, Audio-Visual Education, and Psychology 308, Child Psychology, may be used as electives in the elementary field. In addition to the minimum of thirty semester hours in elementary education, Education 201, Introduction to Education, and Psychology 309, Educational Psychology, must also be offered for certification.

Programs of Study: Bachelor of Science Degree

Complete four-year schedules for every major and every curriculum with detailed statements of required and recommended courses are available on request from the Director of Admissions or the Registrar, Lycoming College, Williamsport, Pennsylvania.

Business Administration Curriculum

Lycoming College offers course work in the area of general business particularly designed for training the prospective business executive. The modern American executive has a broad scope of intellectual interests outside his field of specialization. For this reason, the students enrolled in this curriculum will be required to take a wide range of courses in humanities, fine arts and the natural and social sciences. In addition to these courses specified under Degree Requirements above, the business student will be required to take Business 101-102, Elementary Accounting; Business 110-111, Business Mathematics and Statistics, (Executive Secretarial Science students may substitute Business 112, Computations); Business 302-303, Business Law; Economics 201-202, Principles of Economics; Business 326, Money and Banking; and Business 307, Organization and Management. The remainder of the courses

to be taken in the field of business will depend upon the choice of a major and must total at least 24 semester hours in the field of specialization.

- a. *Major in general business:* Advanced courses in the field of business administration and/or economics totalling 24 semester hours, beyond the basic courses outlined above.
- b. *Major in accounting:* Business 215-216, Intermediate Accounting and at least 18 additional hours in Accounting.
- c. *Major in banking and finance:* Business 215-216, Intermediate Accounting and at least 18 additional hours in recommended business courses.
- d. *Major in retail distribution:* At least 24 semester hours in courses in retailing, marketing and selling.
- e. *Major in economics:* Economics 201-202, Principles of Economics and 24 additional hours in economics.

Executive Secretarial Science Curriculum

The modern executive secretary is one who is conversant with a broad range of liberal learning. For this reason, the four-year secretarial science program at Lycoming is generously sprinkled with courses from the humanities, natural sciences, social sciences and fine arts. In addition to the basic degree requirements specified above, students in this curriculum will find themselves scheduled for the fundamental technique courses in typewriting and shorthand as well as advanced business and economics courses. Because the opportunities for executive secretaries have become so numerous and diversified, each young woman's academic program will be individually arranged in accordance with her specific interests and aptitudes. Emphasis in such areas as medical secretarial and scientific secretarial is possible.

Medical Technology

This curriculum is organized around an academic background of basic science courses in addition to those liberal arts courses listed as requirements for the Bachelor of Science degree. Twelve semester hours in biology are required. In chemistry, General Chemistry and Quantitative Analysis are specified. Three years are spent

in obtaining this academic background; the fourth year is spent in the medical laboratories of an approved hospital. The senior year will consist of an internship of a full calendar year at a hospital accredited in the Registry of Medical Technologists of the American Society of Clinical Pathologists. The College will give credit for the year when it is informed that the student has successfully passed the examinations given by the Registry of Medical Technologists of the American Society of Clinical Pathologists.

Nursing Curriculum

An opportunity for nurses to obtain a bachelor's degree is provided in the five-year plan adopted by Lycoming College. The program includes two years of college work and three years of nurses training at the Williamsport Hospital School of Nursing or at another approved school of nursing. Candidates for the degree of Bachelor of Science in Nursing may elect to take their college work either before or after the completion of nurse's training. Beyond the basic degree requirements, courses in biology, chemistry and education are specified. In order to qualify for the bachelor's degree, the student must have passed the State Board Examinations in Nursing and must have obtained certification as a Registered Nurse.

Courses

Divisions

HUMANITIES: Eric V. Sandin, *Director*

Art, English, French, German, Greek, Music, Philosophy, Religion,
Russian, Spanish, Speech.

SOCIAL SCIENCES: Loring B. Priest, *Director*

History, Political Science, Psychology, Sociology.

NATURAL SCIENCES: George S. Shortess, *Director*

Biology, Chemistry, Drawing, Geology, Mathematics, Physical Education,
Physics, Science Survey.

BUSINESS ADMINISTRATION: Robert W. Rabold, *Director*

Business Administration, Economics, Secretarial Science.

In a detailed description of the courses that follow, the courses of instruction are listed alphabetically by subject matter for the convenience of the reader.

The college reserves the right to withdraw any course for which there are fewer than ten students enrolled.

Art

Assistant Professor CHANDLER

Instructor JAMES

A major in art consists of thirty semester hours of which nine hours are in art theory.

130. APPRECIATION OF ART. A general introduction to the history and appreciation of Western Art, from Prehistoric Art in Europe to Contemporary Art. Films and slides will be used to illustrate the lectures. Three class periods each week.

Three hours credit.

141-142. DESIGN I. An introduction to the basic principles of design. Special emphasis will be given to developing the student's creative ability by means of problems in two-dimensional and three-dimensional design involving line, form, tone, volume, and space. Considerable emphasis will be placed on color. Six class periods each week.

Three hours credit each semester.

143-144. DRAWING I. The course is designed to acquaint the student with various drawing media, as he creates drawings of still-life, landscape, and figure subjects. Six class periods each week.

Three hours credit each semester.

243-244. DRAWING II. Continuation of Art 143-144. Six class periods each week.

Three hours credit each semester.

245-246. PAINTING I. The purpose of this course is to acquaint the student with various painting media, such as oil, watercolor, and gouache. The student will be encouraged to create and develop his own ideas in his search for a suitable technique and method of expressing himself. Six class periods each week.

Three hours credit each semester.

308. MEDIEVAL ART. A study of visual art forms of the medieval period, with particular stress on Romanesque and Gothic churches. Assigned readings, films, slides, and lectures.

Three hours credit.

313-314. COMPOSITION. The purpose of this course is to acquaint the student with the basic fundamentals which govern the arrangement, or placement, of the various elements which form a work of art.

Three hours credit each semester.

341-342. APPLIED DESIGN. The contemporary spirit will be fostered as the student engages in various crafts, such as blockprinting, gesso, and silk-screen printing. Six class periods each week.

Three hours credit each semester.

345-346. PAINTING II. A continuation of Art 245-246. Six class periods each week.

Three hours credit each semester.

407. AMERICAN ART. The visual arts in American life from the seventeenth century to the present, with special emphasis on Pennsylvania's contribution to the development of American Art. Slides and films will be used to illustrate the lectures. Visits to the local museum and other places of art interest in the area. Three class periods each week.

Three hours credit.

409. CONTEMPORARY ART. The contemporary idiom in the visual arts. Divergent trends as revealed by a study of some of the well-known contemporary artists, their lives, and works. Emphasis on the men who have made a distinct contribution to the origin and development of new ideas in the field of art today. Films and slides will be used to illustrate the lectures. Three class periods each week.

Three hours credit.

445-446. PAINTING III. Continuation of Art 345-346. Six class periods each week.

Three hours credit each semester.

Biology

Professors SHORTESS, HOWE AND MOBBERLEY

Assistant Professor BLOCK

A major in biology consists of twenty-four semester hours.

101. GENERAL BIOLOGY (Botany). An introduction to the principles of biology, including a systemic study of characteristic types of plants. Two hours lecture and recitation and two two-hour laboratory periods each week.

Four hours credit.

102. GENERAL BIOLOGY (Zoology). An introduction to the principles of biology, including a systemic study of characteristic types of animals. Two hours lecture and recitation and two two-hour laboratory periods each week.

Four hours credit.

103. MICROBIOLOGY. This course emphasizes the study of micro-organisms that affect mankind, especially those that cause disease. Laboratory exercises deal with elementary bacteriological techniques and plant and animal parasites. Three hours lecture and recitation and one two-hour laboratory period each week.

Four hours credit.

105. ANATOMY AND PHYSIOLOGY. A basic study is made of the skeletal, muscular, circulatory, digestive, nervous, excretory, and reproductive systems of the human body and its functions. Three hours class and four hours laboratory each week.

Five hours credit.

107. BOTANY. More specialized and advanced study of plants than is offered in General Biology. Two hours lecture and recitation and two hours laboratory each week.

Three hours credit.

108. **BOTANY.** A study of the classification of plants and their distribution. Two hours lecture and recitation and two hours laboratory each week.

Three hours credit.

201. **COMPARATIVE VERTEBRATE ANATOMY.** Deals with dissections of representative vertebrates. Two hours lecture and recitation and two two-hour laboratory periods each week.

Prerequisite, Biology 101-102.

Four hours credit.

301. **PHYSIOLOGY.** A study of the physiological processes of the human body. Two hours lecture and two two-hour laboratory periods each week.

Prerequisite, Biology 201.

Four hours credit.

302. **VERTEBRATE EMBRYOLOGY.** The study of the development of an amphibian, the chick, and a mammal, from fertilization of the egg to fully formed embryo. Two hours lecture and two two-hour laboratory periods each week.

Prerequisite, Biology 101-102.

Four hours credit.

401. **HISTOLOGY.** The study of cells and tissues of the human body. Two hours lecture and two two-hour laboratory periods each week.

Prerequisite, Biology 201.

Four hours credit.

402. **GENETICS.** A study of the principles of inheritance and their application to human biology and to the improvement of plants and animals.

Prerequisite, Biology 101-102.

Three or four hours credit.

415-416. **STUDIES IN BIOLOGY.** Conferences, research projects, and written reports on selected topics designed to extend the student's knowledge in chosen fields of biology. Limited to qualified majors.

Four hours credit each semester.

Business Administration

Associate Professor HOLLENBACK

Assistant Professors BRICKER, KING, MORRIS, AND RICHMOND

Instructor ANDERSON

Lecturer LARRABEE

Part-Time Instructor MARVIN

101-102. **ELEMENTARY ACCOUNTING.** An introductory course in which no prior knowledge of accounting is assumed. The course introduces the theory of balance sheet; problems of classification and interpretation of

accounts; preparation of financial statements; and accounting for single proprietorship, partnership and corporation. Manufacturing accounts are also presented. Two hours lecture and one two-hour laboratory period each week.

Three hours credit each semester.

127-128. **ELEMENTARY SHORTHAND.** Study of the complete theory of Gregg shorthand by the simplified method. Dictation and introduction to transcription. Class meets five times each week.

Three hours credit each semester.

129-130. **ELEMENTARY TYPEWRITING.** Complete mastery of the touch system of typewriting with emphasis upon attainment of accuracy and speed. Typing of artistic business letters and of other business forms is stressed. Class meets five times each week.

Three hours credit each semester.

215-216. **INTERMEDIATE ACCOUNTING.** This course carries the fundamentals of accounting presented in Elementary Accounting into the advanced field. It presents an intensive study of accounting statements with a consideration of special analytical accounting procedures and an emphasis upon corporation stock and bond accounts.

Prerequisite, Business 102.

Three hours credit each semester.

241-242. **MEDICAL SHORTHAND.** The course is designed to develop a good working knowledge of medical terminology which is used in the physician's office, the hospital, the laboratory, and the insurance office. Class meets two times each week.

One hour credit each semester, with a maximum of three hours credit.

220. **BUSINESS CORRESPONDENCE.** A course designed to teach methods of composing modern business letters. Actual practice in the writing of all major forms of business communications with special attention given to the preparation of application letters and data sheets.

Prerequisite, Business 219.

Three hours credit.

222. **OFFICE PRACTICE.** Designed to give the student actual practice in applying the knowledge and skills which are acquired in the theory course to problems which arise in typical office situations. Two hours lecture and two hours a week of practical experience secured in the faculty and administrative offices. Methods of filing are included. (Med. Sec.-two hours of lecture and two hours credit.)

Three hours credit.

223. OFFICE MACHINES. Demonstration by the instructor of the proper techniques for operation of various business machines. Students obtain actual practice in the use of these machines in order to develop skill and speed. Class meets five times each week.

Three hours credit.

227-228. INTERMEDIATE SHORTHAND. Review of theory and the development of speed in the writing and transcribing of Gregg shorthand. Special training to acquire technical vocabularies in the fields of advertising, agriculture, banking, insurance, and law. Class meets five times each week.

Prerequisite, Business 127-128.

Three hours credit each semester.

229-230. INTERMEDIATE TYPEWRITING. Development of speed typewriting with a high degree of accuracy. Instruction and practice in typing all business letters and forms, tabulations, manuscripts, legal documents, Mimeograph stencils and Ditto master sheets. Class meets five times each week.

Prerequisite, Business 129-130.

Three hours credit each semester.

234. MEDICAL TRANSCRIPTION. Designed to give the medical secretarial student practice in dictation and transcription of medical letters, reports and case histories. Class meets two times each week.

One hour credit.

239. PERSONAL TYPEWRITING. Typewriting for the non-secretarial science student. Mastery of the touch system of typewriting with stress on accuracy and skill in the development of good style and form in typewritten material.

Two hours credit (no credit toward graduation except for those students majoring in Business Administration.)

243-244. MEDICAL OFFICE TECHNIQUE. Medical ethics, patient psychology, and personal conduct in a medical office are included. The Pathologist and Bacteriologist of Williamsport Hospital provide demonstrations of procedures, First Aid, sterilization and care of instruments, and the maintenance of adequate office records. Observations are made in the hospital of such procedures in actual operation. Designed for the Medical Secretarial students. During the second semester, actual observation work in a doctor's office acquaints the student with procedures.

One and one-half hours credit each semester.

302. BUSINESS LAW. Lecture course on the fundamentals of the law relating to business transactions: contracts, agency, negotiable instruments.

Four hours credit.

303. **BUSINESS LAW.** Lecture course on the fundamentals of the law relating to partnerships, corporations, sales, personal security contracts, guaranty and suretyship, insurance, and real estate.

Four hours credit.

304. **CREDITS AND COLLECTIONS.** The fundamentals of credit, investigation and analysis of risks, collection plans and policies. The organization of credit and collection agencies is studied.

Prerequisite, Business 102.

Three hours credit.

305. **MARKETING.** Retail, wholesale, and manufacturing trade channels; types of middlemen and functions; cooperative associations; marketing functions of policies of retailer, wholesaler and manufacturer; produce exchanges and other markets.

Prerequisite, six hours in Business Administration.

Three hours credit.

306. **INDUSTRIAL ORGANIZATION AND MANAGEMENT.** A study of the basic principles of scientific management and business operations with which the individual entering a modern business enterprise should be familiar, including the development of a new business, the organization and function of the various departments, and the control of such factors as sales, costs, materials, and labor.

Three hours credit.

307. **ORGANIZATION AND FINANCIAL MANAGEMENT OF BUSINESS UNITS.** This course deals with the financing of business; the sources of capital and financial agencies such as note brokers, mortgage banks, investment bankers, commercial banks and commercial paper houses. An analysis of business promotions, reorganizations, mergers and consolidations, and the manner in which they are financed.

Prerequisite, six hours in Business Administration.

Three hours credit.

308. **INVESTMENTS.** This course deals with the leading types of investments, tests, investment programs, financial reports, forecasting methods and agencies, stock exchanges, brokerage houses, methods of buying and selling securities, etc. Laboratory work and case studies.

Prerequisite, Business 102.

Three hours credit.

311-312. **COST ACCOUNTING.** Methods of accounting for material, labor and factory overhead expenses consumed in manufacturing are introduced. Practice sets are used to illustrate job order and process costing. The recent development of the use of standard costs is introduced and illustrated through problems and a practice set. The application of cost principles to the distributive and administrative functions of a business is also presented.

Prerequisites, Business 102, Business 216 or permission of instructor.

Three hours credit each semester.

313-314. **TAX ACCOUNTING.** Federal Income Tax Law and Accounting. An analysis of the provisions of the Internal Revenue Code that relate to income taxes of individuals, partnerships, trusts, estates and corporations with discussion and demonstration of the application of the law and the regulations to accounting procedures in the preparation of tax returns. An extensive series of practical problems are considered, involving determination of income and deductions, capital gains and losses, computation and payment of taxes through withholding at the source and declarations.

Prerequisite, Business 102 and permission of the instructor.

Three credit hours each semester.

326. **MONEY AND BANKING.** A study of the nature and functions of money; paper and deposit currency; the nature and functions of our commercial banking system; the organization and structure of the Federal Reserve System; and the importance of money and banking in our economy.

Prerequisite, Economics 201-202.

Three hours credit.

327. **MONEY AND BANKING.** The historical development of the monetary, commercial banking, and central banking systems in the United States; the value of money; monetary and fiscal policy; international monetary relationships; chain and branch banking; and miscellaneous banking institutions.

Prerequisite, Economics 201-202.

Three hours credit.

341-342. **PRINCIPLES OF RETAILING I AND II.** Survey of the field of retailing; history and development of different types of stores; advantages and disadvantages of each type; store location, layout, and organizations; duties and functions of the different departments; cooperative movements in retailing; selection, training, and supervision of employee.

Three hours credit each semester.

345. **ADVERTISING AND SALES PROMOTION.** Fundamental principles of the science of advertising; advertising media, copy, appeals, layouts, type, illustration, art, psychology; and fundamental principles of sales promotion and coordination of all forms within the organization.

Three hours credit.

346. **SALESMANSHIP.** A study of the place of selling in our economy, past and present; its contributions, costs and criticisms, as well as a study of the art of personal selling on all levels of the distribution process.

Three hours credit.

351. **BUSINESS STATISTICS.** An introduction to the elementary theory of statistical analysis with special reference to business and economic applications.

Prerequisite, Junior standing.

Three hours credit.

401. **REAL ESTATE.** The fundamentals of the real estate business including a study of titles, mortgages, leases, advertising, sale, purchase, development, and management of real estate.

Three hours credit.

402. **INSURANCE.** The fundamentals of fire, marine, health, accident, casualty, and social insurance. Commercial and governmental plans.

Three hours credit.

403. **INSURANCE.** Life insurance and annuities. Fidelity and surety bonds.

Three hours credit.

415-416. **STUDIES IN BUSINESS ADMINISTRATION.** Designed primarily, but not exclusively for the student who desires to pursue graduate training in Business Administration. Under the supervision and guidance of the instructor, the student will write a paper on some specific business problem, integrating his knowledge of the disciplines, using acceptable research techniques, and demonstrating his proficiency, not only in discipline, but in composition. During the latter phases of composition, the student will present his paper and defend its conclusions.

Prerequisite, Business Administration major with at least 18 semester hours in Business Administration and consent of the instructor.

Three hours credit each semester.

423-424. **AUDITING.** This course deals with the science of verifying, analyzing, and interpreting accounts and reports. An audit project is presented, solved and interpreted throughout the year.

Prerequisite, Business 312.

Three hours credit each semester.

425. **C. P. A. PROBLEMS.** This course is intended to meet the needs of those interested in professional accounting and preparation for Certified Public Accountants Examinations. The problems presented throughout the course are taken from past C. P. A. and American Institute of Accountants Examinations and require in their solution a thorough knowledge of the subject matter of prerequisite courses taken.

Prerequisite, Business 312.

Three hours credit.

426. **GOVERNMENTAL ACCOUNTING.** Accounting procedures used by municipal, state, and federal governments and others using fund accounting; a study of fund journal entries, ledgers, operating statements.

Prerequisite, Business 216.

Three hours credit.

428. PERSONNEL MANAGEMENT. Organization and responsibilities of the personnel department: selection, training, welfare work, methods of payment, incentives for better work, morale, personal problems connected with industry and merchandising.

Three hours credit.

431. ADVANCED ACCOUNTING. This course offers an extended treatment of the functions and applications of accounting for those who wish additional accounting background in preparation for entrance into the accounting profession. It treats such special problems as partnerships and joint venture accounting; installment and consignment sales; branch and home office accounting; corporate combinations; and the preparation of consolidated statements.

Prerequisite, Business 216.

Three hours credit.

441. RETAIL BUYING AND MERCHANDISING. Problems of merchandising. Responsibilities of the buyer; what, when, where, and how to buy; types of merchandise, pricing, leased departments, sales planning, and merchandise control; importance of volume, mark-up, mark-down, and turnover; emphasis on making a profit; actual store problems.

Prerequisite or concurrent Business 342.

Three hours credit.

444. MARKETING MANAGEMENT. The role of the marketing executive in our society, including an analytical approach to specific marketing problems confronting the businessman. Emphasis is placed on the application of marketing and economic theory to decision-making in the areas of product choice, promotion, location, choice of channels, and marketing strategy. Collateral reading and cases.

Prerequisite, Business 305.

Three hours credit.

445-446. RETAIL PROBLEMS I and II. A survey of current issues confronting retail management and examination of the management, merchandising and publicity activities of retail stores. Current trends and differences in store practices are stressed; emphasis is given to governmental regulations, labor, and employee-employer relations. The case method is used extensively in the development of the course.

Prerequisite, Business 342.

Three hours credit each semester.

Chemistry

Professor CURRIER

Associate Professors BAUER AND RADSPINNER

A major in chemistry consists of thirty semester hours.

101-102. GENERAL CHEMISTRY. A systematic study of the fundamental laws and theories of chemistry in connection with the most important metallic and non-metallic elements and their compounds. Three hours lecture and two two-hour laboratory periods each week.

Five hours credit each semester.

103. APPLIED CHEMISTRY. A brief survey of general chemistry designed to prepare the student for an understanding of some of the many applications of chemistry to the home, to nutrition, and to nursing. Three hours lecture and one two-hour laboratory period each week.

Four hours credit.

201. QUALITATIVE ANALYSIS. An elementary course in the modern theories of solutions of electrolytes and their applications to cation and anion analysis. Two hours lecture and two three-hour laboratory periods each week.

Four hours credit.

202-203. QUANTITATIVE ANALYSIS. A study of the fundamental methods of elementary gravimetric and volumetric analysis together with practice in laboratory techniques and calculations of these methods. Two hours lecture and two three-hour laboratory periods each week.

Four hours credit each semester.

205. QUANTITATIVE ANALYSIS. A one semester course in simple quantitative analysis given more briefly than course 202-203. The course is designed chiefly for laboratory technician students. Two hours lecture and two three-hour laboratory periods each week.

Four hours credit.

301-302. ORGANIC CHEMISTRY. A systematic study of the compounds of carbon including both aliphatic and aromatic series. The laboratory work introduces the student to simple fundamental methods of organic synthesis. Three hours lecture and one four-hour laboratory period each week.

Four hours credit each semester.

401-402. PHYSICAL CHEMISTRY. A study of the fundamental principles of theoretical chemistry and their applications. The laboratory work includes techniques in physico-chemical measurements. Three hours lecture and one four-hour laboratory period each week.

Prerequisite, one year of calculus.

Four hours credit each semester.

405. BIOCHEMISTRY. A general course dealing with the chemical composition and metabolic processes and significance of carbohydrates, lipids, proteins, and biocatalysts in living tissues. Three hours lecture and one four-hour laboratory period each week.

Prerequisites, Chemistry 301-302, Biology 101-102.

Four hours credit.

411-412. INTRODUCTION TO RESEARCH. An investigation of a selected problem of limited scope, involving conferences, library and laboratory work. Limited to qualified majors.

Prerequisite, consent of instructor.

Three hours credit each semester.

Drawing

Assistant Professor BAUER

101. ENGINEERING DRAWING. The principles of orthographic projection, axiometric drawing, and perspective through instrumental and free hand exercises. Vertical lettering, free hand sketches, uses of drawing instruments, drafting room practice in conventional representations, practice in pencil and ink tracing, sections, theory of dimensioning, detail and assembly drawings and the reading of working drawings. Class meets two two-hour laboratory periods each week.

Two hours credit.

103. DESCRIPTIVE GEOMETRY. Graphical solution of the more advanced space problems, both theoretical and practical and those encountered in engineering practice; practice in inclined free hand lettering. Problems involve the measurement of angles and distances and the generation of various surfaces, together with their sections, developments and intersections. In each project, visualization and analysis lead to a logical and efficient solution. Class meets two two-hour laboratory periods each week.

Two hours credit.

Economics

Associate Professor RABOLD

Assistant Professors BRICKER AND KYTE

A major in economics consists of twenty-four semester hours.

105. INTRODUCTION TO ECONOMIC PRINCIPLES. A discussion of economic principles designed for the student who is required to schedule only three credits of economics. Includes such topics as money and banking, prices, public debt and expenditures, taxation, business organization, monopoly and competition, labor problems and agricultural problems. Not to be scheduled by those requiring six credits of economics nor by students desiring to go beyond principles.

Three hours credit.

201-202. PRINCIPLES OF ECONOMICS. A study of the organization of the economic system and principles and problems that govern economic activity. Major topics covered include: production, consumption, exchange, distribution, risks of enterprise, banking, international trade, profits, rent, wages, and social reforms.

Three hours credit each semester.

301-302. ECONOMIC GEOGRAPHY. A general survey course, showing the relation of physical environment to man's economic and cultural achievements. Emphasis is placed on the part the United States plays in the occupations of man, as contrasted to other producing areas of the world.

Three hours credit each semester.

305. LABOR PROBLEMS. A study of the American labor movement and the position of the worker in modern industrial society. Unemployment, wages, hours, child labor, woman in industry, the aged workers, unions, and industrial peace are among the problems considered.

Prerequisite, six hours in Economics.

Three hours credit.

306. LABOR LEGISLATION. A continuation of labor problems. Labor and the courts; federal regulation of capital-labor relations; the work of federal labor boards.

Prerequisite, Economics 305.

Three hours credit.

308. **INTERMEDIATE ECONOMIC THEORY.** Analysis of contemporary value theory. It covers the theory of commodity price and output determination under various market situations; the theory of factor price determination; and consideration of aggregative economics or National Income Accounting.

Prerequisite, Economics 201-202.

Three hours credit.

311. **COMPARATIVE ECONOMIC SYSTEMS.** The economic development and comparative analysis of various economic systems including Capitalism, Socialism, Communism, and Fascism.

Prerequisites, Economics 201-202 or permission of the instructor.

Three hours credit.

315. **ECONOMIC DEVELOPMENT OF EUROPE.** A study of the European economy (including Great Britain) from Medieval times to the present. Special attention will be given to the economic problems of feudalism, mercantilism, the origins and growth of capitalism, and the formation and problems of the national economies. Historical facts and interpretations will be related to theories of growth and development such as found in the writings of Tawney, Sombart, Pirenne, and Max Weber.

Prerequisite, Economics 202 or Economics 105.

Three hours credit.

316. **ECONOMIC DEVELOPMENT OF THE UNITED STATES.** An analysis of the economic development of the United States from colonial times to the present. An integration of historical analysis and economic theory, stressing economic forces in the 19th and 20th centuries, and their influence upon our present economy.

Prerequisite, Economics 202, or Economics 105.

Three hours credit.

MONEY AND BANKING. (See Business Administration 326, 327).

402. **TRANSPORTATION.** Problems and policies of railroads, busses, inland waterways, air and ocean transportation. The economic importance and significance of transportation are emphasized.

Prerequisite, six hours in Economics.

Three hours credit.

403. **HISTORY OF ECONOMIC THOUGHT.** An advanced course which deals with the origin, growth and significance of economic institutions with emphasis upon those of Europe and the United States.

Prerequisite, six hours in Economics numbered above 200.

Three hours credit.

405. **PUBLIC FINANCE.** Public revenue and expenditures; preparation of budgets; public taxation; public borrowing.

Prerequisite, six hours in Business Administration numbered above 200 and Economics 201-202.

Three hours credit.

409. THE BUSINESS CYCLE. History and general nature of the business cycle; its causes and its relation to the economic process as a whole; possible remedies, public and private; source materials and current literature.

Prerequisite, Economics 201-202.

Three hours credit.

412. CURRENT ECONOMIC PROBLEMS. A survey of important economic problems such as money and banking, finance, labor, public utilities, international trade, business cycles, and other types of economic systems in their conflict with Capitalism. Designed to permit the student of economics to apply economic knowledge to the appreciation and solution of contemporary problems.

Prerequisite, Economics 201-202.

Three hours credit.

413. INTERNATIONAL TRADE. A study of the fundamental principles of international trade and foreign exchange. Topics include American and foreign tariff histories, mercantilistic policies, commercial policies, balance of payments, exchange control and other currency problems, and a survey of the practical problems confronting the international trader, including the development of an international trade vocabulary.

Prerequisite, Economics 201-202.

Three hours credit.

415-416. STUDIES IN ECONOMICS. Designed primarily, but not exclusively for the student who desires to pursue graduate training in Economics. Under the supervision and guidance of the instructor the student will write a paper on some specific economics problem, integrating his knowledge of the disciplines, using acceptable research techniques, and demonstrating his proficiency, not only in the discipline, but in composition. During the latter phases of composition, the student will present its conclusions.

Prerequisite, Economics major with at least 18 semester hours in Economics and consent of the instructor.

Three hours credit each semester.

Education

Professor DERR

Assistant Professors CONRAD, GRAMLEY, JOSEPHSON, AND SHEAFFER

Part-Time Instructors KELLER AND SMINK

201. INTRODUCTION TO EDUCATION. This basic course introduces the student to the social values of public education, the changing conception of the purposes of education, the problems facing the schools; and to fields of professional activity. Required of all students desiring certification for teaching.

Three hours credit.

202. PUBLIC SCHOOL ORGANIZATION. This course covers the national, state, county and local organizations of education. There is emphasis on the co-curricular personnel with special consideration of the school nurse in the school program.

Three hours credit.

231. ART IN THE ELEMENTARY SCHOOL. A study of techniques and materials based on the development of the child through creative experiences in art. Special attention given to parallel growth in creative and mental development, and methods for different age levels and classroom situations.

Two hours credit (231S, three hours credit).

232. MUSIC IN THE ELEMENTARY SCHOOL. This course is designed to train the elementary teacher to teach music successfully in grades, whether under a music supervisor or not. Through a variety of significant experiences with appropriate music, this course will develop skills in notation, ear training, the rote song, rhythm, intonation, conducting, and interpretation.

Two hours credit. (232S, three hours credit).

233. HEALTH AND SAFETY EDUCATION. An introduction to the methods of teaching children's games and dances, first aid, preservation of health, prevention of accidents, and the development of good health habits.

Two hours credit. (233S, three hours credit).

234. GEOGRAPHY METHODS AND MATERIALS. Acquainting the student with the social learnings and modifications of behavior that should accrue to elementary school children with subject matter and related material used in the various grade levels. Experience in planning and organizing integrated teaching units using texts, reference books, films, and other types of teaching materials.

Two hours credit. (234S, three hours credit).

301. PROBLEMS OF SECONDARY EDUCATION. The course deals with the development and problems of secondary education in a democracy. Consideration of the many special problems of high school students is included.

Three hours credit.

EDUCATIONAL SOCIOLOGY. (See Sociology 302).

303. AUDIO-VISUAL EDUCATION. A study of the value, design, construction, and application of the visual and auditory aids to learning. Practical experience in the handling of audio-visual equipment and materials is provided. Limited to juniors and seniors.

Three hours credit.

304. TECHNIQUES AND METHODS OF TEACHING. The course deals with a study of materials and methods of teaching with emphasis on the student's major. Stress is placed on the selection of suitable curricular materials. Students will teach demonstration lessons in the presence of the instructor and the members of the class.

Three hours credit.

306. HISTORY AND PHILOSOPHY OF EDUCATION. A study of the economic, social, political, and religious conditions which have influenced the different educational programs and philosophies, with emphasis being placed on the American educational system.

Three hours credit.

307. EXTRA CURRICULAR ACTIVITIES IN THE JUNIOR AND SENIOR HIGH SCHOOL. Consideration is given to the major types of activities, principles, financial control, credit, and evaluation.

Three hours credit.

308. EDUCATIONAL AND VOCATIONAL GUIDANCE. The importance of guidance and personnel service in secondary and on other educational levels is stressed. An analysis of records, tests, and grades is included.

Three hours credit.

EDUCATIONAL PSYCHOLOGY (See Psychology 309).

331. ELEMENTARY SCHOOL CURRICULUM. An examination of learning materials and experiences of the elementary school and viewing their influence on the development of children. Special attention given to the make-up and administration of the program at the primary and intermediate grade levels.

Two hours credit. (331S, three hours credit).

332. ARITHMETIC METHODS AND MATERIALS. A study of objectives, materials, and methods of instruction; the organization of learning experiences, and evaluation of achievement in the elementary school.

Two hours credit (332S, three hours credit).

333. **ENGLISH METHODS AND MATERIALS.** This course is designed to consider problems and methods of presenting and/or written English, spelling, penmanship, and choric speaking. Techniques and procedures used in grammar and composition.

Two hours credit. (333S, three hours credit).

334. **READING METHODS AND MATERIALS.** A course designed to study the development of a reading program from the beginnings (readiness) through principles, problems, techniques, and materials used in the total elementary school.

Three hours credit.

335. **SCIENCE METHODS AND MATERIALS.** Interpreting children's science experiences, and guiding the development of their scientific concepts. A briefing of the science content of the curriculum, its material and use.

Two hours credit. (335S, three hours credit).

336. **SOCIAL STUDIES METHODS AND MATERIALS.** A study of the principles underlying the use of Social Studies in the elementary school. Practical applications and demonstrations of desirable methods.

Two hours credit. (336S, three hours credit).

337. **CHILDREN'S LITERATURE.** A study of children through literature. The role of literature in children's growth and development, methods fostering creativity, and the development of good reading tastes.

Two hours credit. (337S, three hours credit).

Ed. 400. **PRACTICE TEACHING.** Teaching experience in the public schools of this area on the elementary level under the supervision of a co-operating teacher.

Prerequisite, fifteen hours credit, including Education 201 and Psychology 309 and an average of at least 2.0 in all college work.

Six to twelve hours credit.

401. **PRACTICE TEACHING.** Teaching experience in a junior or senior high school in the greater Williamsport area; observation of the teaching of veteran teachers; gradual acceptance of the full responsibilities of the teacher.

Prerequisite, nine hours credit, including Education 201 and Psychology 309 and an average of at least 2.0 in all college work.

Six to nine hours credit.

English

Professor SANDIN

Associate Professors GRAHAM AND STUART

Assistant Professor GARNER

Instructors MADDEN, MAYNARD, AND PECK

A major in English consists of a minimum of twenty-four semester hours, excluding 101-102; at least six hours must be in American Literature and at least fifteen hours in courses numbered 300 and above.

50. REMEDIAL ENGLISH. Elementary course required of freshmen unprepared for English 101. Class meets three times each week. No credit toward a degree.

101-102. COMPOSITION. The two-fold purpose is to teach the student to read good prose of ordinary difficulty, both critically and appreciatively, and to organize his ideas in logical, connected discourse.

Three hours credit each semester.

201. SURVEY OF ENGLISH LITERATURE. A study of the major movements and authors from their beginnings to 1798.

Three hours credit.

202. SURVEY OF ENGLISH LITERATURE. A study of the major movements and authors from 1798 to the contemporary period.

Three hours credit.

203. HISTORY OF AMERICAN LITERATURE. A survey of our literature from the colonial period to 1860.

Three hours credit.

204. HISTORY OF AMERICAN LITERATURE. A survey of our literature from 1860 to the contemporary period.

Three hours credit.

215. JOURNALISM. Extensive readings will be followed by writing assignments in such forms as the feature article, the essay, business and government reports, the editorial and the straight news article.

Three hours credit.

301. ROMANTIC MOVEMENT. A study in the English Romantic poets, Wordsworth to Keats.

Three hours credit.

303. VICTORIAN POETRY. The major poets from Tennyson to Housman.

Three hours credit.

304. VICTORIAN PROSE. Emphasis is placed on the attitudes of the leading essayists toward the many and varied problems of the Victorian Age.
Three hours credit.
305. HISTORY OF THE ENGLISH NOVEL. From Defoe to Jane Austen.
Three hours credit.
306. HISTORY OF THE ENGLISH NOVEL. From Dickens to Galsworthy.
Three hours credit.
311. SHAKESPEARE. A study of representative plays.
Three hours credit.
316. CONTEMPORARY LITERATURE. A study of the major trends in American and English Literature of the recent past.
Three hours credit.
320. ADVANCED COMPOSITION. Consent of the instructor; limited to 15 students.
Three hours credit.
321. IMAGINATIVE WRITING. Emphasis on various forms of creative writing, such as fiction, poetry, familiar essay. Consent of the instructor; limited to fifteen students.
Three hours credit.
323. DEVELOPMENT OF ENGLISH DRAMA. An historical and critical survey of English Drama from the medieval period through the nineteenth century.
Three hours credit.
325. MODERN ENGLISH AND AMERICAN DRAMA. From the 1890's to the present.
Three hours credit.
404. AMERICAN REGIONAL FICTION. Study in development of local color and regional literature after the Civil War.
Three hours credit.
410. HISTORY OF THE ENGLISH LANGUAGE. Some knowledge of Latin and one modern language will prove helpful.
Three hours credit.
- 415-416. STUDIES IN ENGLISH LITERATURE. Conferences, oral and written reports on selected topics designed to round out a student's knowledge of English Literature. Limited to qualified majors.
Three hours credit each semester.
- 417-418. STUDIES IN AMERICAN LITERATURE. Conferences, oral and written reports on selected topics designed to round out a student's knowledge of American Literature. Limited to qualified majors.
Three hours credit each semester.

French

Assistant Professor COGSWELL

A major in French consists of twenty-four semester hours, including French 401-402.

111-112. **BEGINNING.** Fundamentals of pronunciation and grammar; practice in reading, conversation, and composition.

Three hours credit each semester.

113-114. **ELEMENTARY CONVERSATION.** Study of the phonetic symbols for better pronunciation. Conversation based on events of Paris, customs, manners, and politics of France. Class meets four times each week.

Prerequisite, French 111-112 or the equivalent.

Three hours credit each semester.

211-212. **INTERMEDIATE.** Review of grammar. Study of modern texts; practice in conversation and composition. Reports on outside reading.

Prerequisite, French 111-112 or equivalent.

Three hours credit each semester.

213-214. **ADVANCED CONVERSATION AND COMPOSITION.** An intensive course designed to develop a high degree of aural comprehension and conversational fluency.

Prerequisite, French 113-114 or the equivalent.

Three hours credit each semester.

307-308. **SCIENTIFIC FRENCH.** Introduction to scientific French. Reading of scientific texts with emphasis on the technical vocabulary of sciences and industry.

Prerequisite, French 212.

Two hours credit each semester.

311-312. **THIRD-YEAR FRENCH.** Reading and oral reproduction of nineteenth and twentieth century drama. Outside reading and written reports. One-third of the time is devoted to further study of grammar and of idioms, with special emphasis on writing in French.

Prerequisite, French 211-212 or equivalent.

Three hours credit each semester.

401-402. SURVEY. A study of representative works from the earliest monuments to modern times. Analysis of the texts and their relations to other literatures. Introduction to graduate methods of research and preparation. Required of all majors.

Prerequisites, French 301-302 or equivalent.

Three hours credit each semester.

403-404. ADVANCED GRAMMAR. Thorough study of grammar. Course style: French "from the inside," practice in composition and development of literary writing.

Prerequisite, French 311-312 or equivalent.

Three hours credit each semester.

Geology

Professor Howe

101. GEOLOGY. An introduction to earth science with particular regard for the origin of the earth, its physical structure and the forces which account for its present surface features. Two lectures and one two-hour laboratory period a week.

Three hours credit.

102. GEOLOGY. Geological history and principles are stressed. Emphasis is placed on the geology of the United States generally, and that of Pennsylvania in particular. Two lectures and one two-hour laboratory period a week.

Prerequisite, Geology 101.

Three hours credit.

German

Assistant Professor FRIES

A major in German consists of twenty-four semester hours, including German 401-402.

111-112. ELEMENTARY. Introduction into patterns and grammatical and syntactical foundations of the German language. Intensive drill in the active use of simple language.

Three hours credit each semester.

211-212. INTERMEDIATE. A continuation and extension of Elementary German, leading to a degree of competence in the active handling and an understanding of the structure of the German language. Reading of contemporary material.

Prerequisite, German 112, or equivalent.

Three hours credit each semester.

217-218. READING. An alternative terminal course to German 211-212, offered to students who primarily desire an ability to read and translate expository prose, especially of a scholarly nature. Not part of a major sequence.

Prerequisite, German 112, or equivalent, and a demonstrated command of English.

Three hours credit each semester.

311-312. ADVANCED. Readings in German literary masterpieces. Exercises and reports based on the texts.

Prerequisite, German 212.

Three hours credit each semester.

403-404. THE AGE OF GOETHE. Readings and discussions of representative works of the German classical period.

Prerequisite, permission of the instructor.

Three hours credit each semester.

405-406. THE 19TH AND 20TH CENTURIES. Readings and discussions of representative works of the major literary movements of the period.

Prerequisite, permission of the instructor.

Three hours credit each semester.

411-412. SURVEY OF GERMAN CIVILIZATION. A study of the major developments in German thought and culture, demonstrated on selected texts from all major periods of German literary history. Offered on demand, recommended for German majors, and majors in other fields in the humanities.

Prerequisite, permission of the instructor.

Three hours credit each semester.

Greek

Assistant Professor RAMSEY

205-206. NEW TESTAMENT GREEK GRAMMAR. Fundamentals of New Testament Greek grammar.

Not scheduled in Freshman year, except by special permission.

Three hours credit each semester.

317. SELECTED READINGS FROM THE NEW TESTAMENT. The reading of passages chosen from the Greek Testament for their literary merit and significance for the Christian faith.

Prerequisite, Greek 206.

Three hours credit.

318. THE GOSPEL ACCORDING TO ST. MARK. A critical reading of the Greek text with reference to the problems of higher and lower Biblical criticism.

Prerequisite, Greek 206.

Three hours credit.

418. THE EPISTLE TO THE ROMANS. A critical study of the Greek text with special attention being given to the theology of St. Paul.

Prerequisite, Greek 206.

Three hours credit.

History

Professor PRIEST

Associate Professors BARNES AND EWING

Assistant Professor WARGO

Instructor STITES

Part-Time Instructor MORRIS

105-106. MODERN EUROPE. An examination of the political, social, cultural and intellectual experience of the peoples of Europe from the era of the high Renaissance and the Reformation to the conclusion of World War I.

Three hours credit each semester.

201. UNITED STATES AND PENNSYLVANIA HISTORY TO 1865. A course in the political, economic, and social factors in the history of the United States and the Commonwealth. (Satisfies state requirements for a teaching certificate.)

Three hours credit.

202. UNITED STATES AND PENNSYLVANIA HISTORY SINCE 1865. A continuation of History 201, with special attention to international relations, the problems of labor, education, corporate control, and postwar activities. (Satisfies state requirements for a teaching certificate.)

Three hours credit.

301. THE COLONIAL PERIOD AND THE AMERICAN REVOLUTION (1492-1789). A concentrated course on the discovery of the continent, and the events leading up to the Revolution and the adoption of the Constitution.

Three hours credit.

302. AMERICAN FOREIGN RELATIONS. A study of the most significant diplomatic problems arising out of wars, westward expansion, and colonial possessions, with special attention to the evolution of the United States as a world power.

Three hours credit.

308. CIVIL WAR AND RECONSTRUCTION. Emphasis is placed on the events leading up to the war; the various campaigns of the war and the return to peacetime activity are considered.

Three hours credit.

317. THE FRENCH REVOLUTION AND THE NAPOLEONIC ERA. An analysis of the political, social, and intellectual backgrounds of the French Revolution, a survey of the course of revolutionary development, and an estimate of the results of the Napoleonic conquests and administration.

Three hours credit.

320. PENNSYLVANIA HISTORY. A history of Pennsylvania from its founding to the present day. All phases of life in the colony and commonwealth are treated.

Three hours credit.

321. AMERICAN SOCIAL AND INTELLECTUAL HISTORY TO 1860. The rise and development to 1860 of American ideas, ideals, and social standards.

Three hours credit.

322. AMERICAN SOCIAL AND INTELLECTUAL HISTORY SINCE 1860. The changes produced in American ideas, ideals, and social standards by the Civil War and the course of their development since that time.

Three hours credit.

327. ANCIENT CIVILIZATION. The origin and character of the civilizations of antiquity, with special emphasis upon those elements of Greek and Roman culture which have been incorporated in the structure of western civilization.

Three hours credit.

328. HISTORY OF MEDIEVAL EUROPE. The development of European political, social, and religious institutions and cultural patterns from the collapse of the Roman Empire to 1500.

Three hours credit.

331. RENAISSANCE. The intellectual, literary, and aesthetic aspects of the Italian Renaissance and the Trans-Alpine Renaissance considered in their political, economic, and social setting.

Three hours credit.

332. REFORMATION. A study of the antecedents, character and course of development of the Reformation and of the roles of Protestantism and Roman Catholicism in the history of Europe during the sixteenth century and the first half of the seventeenth century.

Three hours credit.

335. MODERN AND CONTEMPORARY FAR EAST. The impact of Western Civilization on China, Japan, India and Southeast Asia; with emphasis on its modifications of the unique social, cultural, and historical institutions of the Orient.

Three hours credit.

337. SEVENTEENTH CENTURY EUROPE. The rise of Modern Europe from the end of the Wars of Religion to the Enlightenment. Main emphasis will be placed on the political and constitutional changes on the Continent and in England, the advent of science and speculative philosophy, artistic and cultural developments.

Three hours credit.

339. NINETEENTH CENTURY EUROPE. This course deals with nationalism, the democratic movement, economic growth, imperialism and the cultural advance in the Old World from the Congress of Vienna to the outbreak of World War I. The factors that led to that great struggle will be analyzed.

Three hours credit.

407. MODERN FRANCE. A brief, rapid survey of the constitutional, political and cultural development of France from the later Middle Ages will provide perspective for an intensive study of the nation since Napoleon. The course will conclude with an assessment of France's place and potential in today's post-war world.

Three hours credit.

408. MODERN GERMANY. Germany in the period following the Congress of Vienna. It will include discussion of the basic problems and tendencies of German history, as well as consideration of the problem of German unity, the Bismarkian Empire, the Weimar Republic and the Nationalist Socialist regime.

Three hours credit.

409. MODERN RUSSIA. This course is designed to acquaint the student with the major developments in modern and contemporary Russia. The period down to the nineteenth century will be treated in broad outline. Emphasis will be given to the changes in Russia during the last century which laid the basis for revolution and the rise of Soviet civilization as well as a critical analysis of this society.

Three hours credit.

415-416. STUDIES IN HISTORY. Conferences, and oral and written reports on selected topics designed to round out a student's knowledge of history. Limited to qualified majors.

Three hours credit each semester.

425. ENGLISH HISTORY TO 1603. Political, social, and cultural history of England, with particular emphasis on the growth of the constitution and legal institutions, from the Roman period to the death of Elizabeth I.

Three hours credit.

426. ENGLISH HISTORY SINCE 1603. Political and social changes, constitutional and imperial developments, and economic and cultural factors from the accession of James I to the present.

Three hours credit.

427. RECENT EUROPE. A study of diplomatic, social and economic developments in the period from 1914 to the Great Depression. Emphasis will be placed upon the Treaty of Versailles, the rise of the Fascist Movement, the Soviet Revolution and attempts to insure European security.

Three hours credit.

428. CONTEMPORARY EUROPE. Europe from the Great Depression to the present. It deals with the failure of international security organizations, the dissolution of the European system under the impact of totalitarian movements, World War II and Soviet imperialism since 1945.

Three hours credit.

429. RISE OF MODERN AMERICA (1877-1919). A course tracing the background of the present-day United States including such matters as the new South; the end of the frontier, industrial development, the organization of labor, agricultural depression, the progressive movement, and increasing involvement of the United States in world affairs.

Three hours credit.

430. RECENT HISTORY OF THE UNITED STATES (1919 to present). The development of the United States following World War I—normalcy, the New Deal, World War II and contemporary problems.

Three hours credit.

Mathematics

Associate Professors KNIGHTS AND VANBAELEN

A major in mathematics consists of twenty-four semester hours beyond the 100-level courses.

100. INTERMEDIATE ALGEBRA. For students presenting only one year of high school algebra and desiring further work in science or engineering. No college credit toward a major.

Three hours credit.

101. COLLEGE ALGEBRA. After a rapid review of quadratic equations, this course deals with the binomial theorem, permutations, and combinations, probability, series, determinants, and theory of equations.

Prerequisite, Mathematics 100 or two years of high school algebra.

Three hours credit.

102. TRIGONOMETRY. An introductory course in plane trigonometry dealing with the use of logarithms in the solution of plane triangles, together with the trigonometric functions of an angle and the fundamental identities connecting its functions.

Three hours credit.

201. ANALYTIC GEOMETRY. A study of the graphs of various equations; curves resulting from simple locus conditions with stress on the loci of the second degree; polar co-ordinates, and co-ordinates of space.

Prerequisite, Mathematics 102.

Four hours credit.

205. DIFFERENTIAL CALCULUS. Functions, limits, slope, derivatives of algebraic and transcendental functions and their applications to maxima and minima, rates, curvature.

Prerequisite, Mathematics 201.

Three hours credit.

207-208. INTRODUCTION TO MODERN MATHEMATICS. Introduces student to such topics in modern mathematics as symbolic logic, sets and subsets, probability theory, vectors and matrices, linear programming and theory of games. Applications from the field of biological and social sciences.

Three hours credit each semester.

302. DIFFERENTIAL EQUATIONS. A first course in ordinary differential equations. Includes differential equations of first order with applications to physics, mechanics, and chemistry; linear equations with constant coefficients, simultaneous equations, and some special higher order equations.

Prerequisite, Mathematics 306.

Three hours credit.

303. HISTORY OF MATHEMATICS. A survey of the historical development of arithmetic, algebra, trigonometry, and the beginnings of analytic geometry and calculus.

Prerequisite, Mathematics 305.

Three hours credit.

305. INTEGRAL CALCULUS I. Indefinite and definite integration, improper integrals. Applications: areas, volumes, length of curves, surfaces of revolution, moments, pressure and work.

Prerequisite, Mathematics 205.

Three hours credit.

306. INTEGRAL CALCULUS II. Review of solid analytic geometry, partial differentiation and applications, multiple integral and applications, infinite series, expansions, MacLaurin's and Taylor's Theorem with and without remainder, and an introduction to differential equations.

Prerequisite, Mathematics 305.

Three hours credit.

401. ADVANCED CALCULUS. Includes a short course in solid analytic geometry, partial differentiation, power series, MacLaurin and Taylor series, multiple integrals.

Prerequisite, Mathematics 305-306.

Three hours credit.

403. HIGHER ALGEBRA. Includes the study of the binomial theorem for any index, the summation of series, mathematical induction, elements of the theory of numbers, indeterminate equations, and probability.

Prerequisite, Mathematics 101.

Three hours credit.

405. ELEMENTARY THEORY OF EQUATIONS. Complex number, binomial equations, polynomials and solution of polynomial equations. Determinants and introduction to matrices. Linear equations. Elimination.

Three hours credit.

415-416. STUDIES IN MATHEMATICS. Conferences, oral and written reports on selected topics designed to round out a student's knowledge of mathematics. Limited to qualified majors.

Three hours credit each semester.

Music

Associate Professor McIVER

Assistant Professors JOSEPHSON, RUSSELL, AND SHEAFFER

Instructor LANDON

A major in music consists of thirty semester hours adequately distributed in Principles, History and Literature, and Applied Music. A minimum of fifteen semester hours in Principles, History and Literature is required.

A. PRINCIPLES

121-122. **THEORY.** An integrated course in the fundametals of music and musicianship including written harmony, sight singing, ear training, and keyboard harmony. Class meets 5 times each week.

Four hours credit each semester.

221-222. **THEORY.** A continuation of the integrated course in music and musicianship. Class meets 5 times each week.

Prerequisite, Music 121-122.

Four hours credit each semester.

321. **ADVANCED HARMONY.** Altered chords and a thorough review of seventh, ninth, and eleventh chords, with analysis of material used in modern music. Continued work at the keyboard.

Prerequisite, Music 221-222.

Three hours credit.

322. **COUNTERPOINT.** A study of the five species in two, three, and four part writing.

Prerequisite, Music 221-222.

Three hours credit.

401. **ORCHESTRATION.** A study of modern orchestral instruments, an examination of their use by the great masters with practical problems of instrumentation.

Prerequisite, Music 221-222.

Three hours credit.

402. **COMPOSITION.** Creative writing in smaller vocal and instrumental forms. The college musical organizations serve to make performances possible.

Prerequisite, Music 322.

Three hours credit.

403. **FORM AND ANALYSIS.** A study of harmonic and contrapuntal forms, with analysis of representative works of music literature

Prerequisite, Music 222.

Three hours credit.

B. HISTORY AND LITERATURE

130. MUSIC APPRECIATION. A general study of concert repertory designed to stimulate enjoyment and taste through the development of good listening techniques.

Three hours credit.

226. THE GOLDEN AGE OF POLYPHONY. A survey of the musical literature of the 15th and 16th centuries with time given to the singing of great polyphonic compositions.

Prerequisite, Music 130.

Three hours credit.

227. CLASSIC AND BAROQUE MUSIC. A study of the development and growth of music and musical forms during the 17th and 18th centuries. The emergence of opera, oratorio, the sonata, the symphony, the concerto and the modern orchestra.

Prerequisite, Music 130.

Three hours credit.

228. ROMANTIC MUSIC. Music of the 19th century with emphasis on subjectivity, nationalism, and virtuosity for program music.

Prerequisite, Music 130.

Three hours credit.

229. MUSIC OF THE 20TH CENTURY. A study of music written in the 20th century with an examination of musical trends since 1900.

Prerequisite, Music 130.

Three hours credit.

307-308. HISTORY OF MUSIC. A survey of the history of music from antiquity to 1750. (First Semester). A survey of the history of music from 1750 to the twentieth century. (Second Semester).

Three hours credit each semester.

309. HYMNOLOGY. A study of the hymnody of the Christian Church. Emphasis is directed toward an appreciation of the Church's finest hymns.

Three hours credit.

406. CONTEMPORARY TECHNIQUES. This course, beginning with the style of Debussy and continuing through the contemporary composers, is designed to provide training in contemporary harmonic and contrapuntal techniques. Contemporary American composers will be studied in the second half of the course.

Three hours credit.

415. SENIOR STUDIES. Herein opportunity is afforded to the senior majoring in music to develop a project in research. Such work is undertaken

in consultation with a faculty adviser. Emphasis is directed toward the development of creative thinking. May be taken only with the permission of the head of the department.

Three hours credit.

C. APPLIED MUSIC

131-132. PIANO CLASS. A beginning class in piano designed primarily for the voice and instrumental majors. No more than 8 students to a class. Two classes each week.

One hour credit each semester.

135-136. PRIVATE PIANO INSTRUCTION. Training in the fundamentals
235-236 of technique. Progressive studies are used to make possible a
335-336 study of the world's finest piano literature. Participation in recitals
435-436 is part of the course. Senior recital.

One half or one hour credit each semester.

141-142. VOICE CLASS. Group instruction for beginning voice students. Emphasis on personal requirements with opportunity for individual performance. Two classes each week.

One hour credit each semester.

145-146 PRIVATE VOICE INSTRUCTION. Training in the funda-
245-246 mentals of good singing with a study of various styles of song
345-346 literature. Performance in recitals is required once each semes-
445-446 ter, with fourth year voice students presenting a major recital
before graduation.

One half or one hour credit each semester.

151-152. BAND INSTRUMENTS CLASS. Group instruction at the beginning level in band instruments. Two classes each week.

One hour credit each semester.

155-156. PRIVATE INSTRUCTION IN BAND INSTRUMENTS. Train-
255-256 ing in the fundamentals of performance on one or more instru-
355-356 ments of the band. Progressive studies offer the opportunity
455-456 for the student to advance to the level of recital performance.
Senior recital required.

One half or one hour credit each semester.

165-166. PRIVATE INSTRUCTION IN STRINGS. Training in the funda-
265-266 mentals of performance on one or more of the string instruments.
365-366 Progressive studies make possible advancement to the level of
465-466 recital performance. Senior recital required.

One half or one hour credit each semester.

175-176. PRIVATE INSTRUCTION IN ORGAN. Satisfactory background
275-276 in piano is required to study organ. Additional work in piano
375-376 may be required at the discretion of the department head. The
475-476 organ student is given the opportunity to work with progressive
studies in both church and concert repertory. Senior recital.

One half or one hour credit each semester.

325-326. CHORAL AND/OR INSTRUMENTAL CONDUCTING. A
study of the fundamentals of conducting with frequent opportunity for
practical experience.

Three hours credit each semester.

334. PIANO ENSEMBLE. A course designed to explore piano literature
for four and eight hands. Required of piano majors. Open to any qualified
student. Two classes each week.

One hour credit, with a maximum of two hours credit.

344. VOCAL METHOD CLASS. A study of anatomy relative to vocali-
zation; diction is studied through phonetic spelling. Practical application
is made by singing individually and as a class. Required of voice majors.
Open to any qualified student. Two classes each week.

One hour credit.

354. INSTRUMENTAL METHOD CLASS. A course designed to study
instrumental method. Required of instrumental majors. Open to any quali-
fied student. Two classes each week.

One hour credit.

Philosophy

Associate Professor FAUS

Assistant Professor MUCKLOW

A major in philosophy consists of twenty-four semester hours, including
Philosophy 403-404 to be taken in the Junior year.

207. INTRODUCTION TO PHILOSOPHY. This basic course is a survey
of the various aspects and problems of philosophy, with special emphasis on
ethical, social and political philosophy.

Three hours credit.

210. PHILOSOPHY OF RELIGION. A study of the philosophical found-
ations of religion, with special emphasis on the intellectual bases for the
belief in God, the problem of good-and-evil, human personality, religious
experience, and human immortality.

Three hours credit.

303. **ETHICS.** The central purpose of this course is to give constructive guidance in areas of vital concern to modern youth in college life. The modern problems of personal conduct and social ethics are considered in the light of the principles of moral obligations.

Prerequisite, Philosophy 207.

Three hours credit.

305. **LOGIC I.** Introduction to elementary formal deductive logic and its application to arguments expressed in English. Investigation of selected topics in semantics, such as truth and meaning.

Prerequisite, Philosophy 207, previously or concurrently.

Three hours credit.

306. **LOGIC II.** Continuation of elementary formal deductive logic. Investigation of selected topics in mathematics and law, such as the nature of mathematical truth and the role of definition in jurisprudence. Examination of the nature of reasoning, through comparison of the kinds of argument found in such diverse realms of discourse as mathematics, law and ethics.

Prerequisite, Philosophy 207 and 305.

Three hours credit.

307. **AESTHETICS.** This course consists of the study of form, harmony and beauty and their relations to the integrated experiences of the individual person.

Three hours credit.

309. **AMERICAN PHILOSOPHY.** A study of the important trends and chief world-views among American philosophers, including present-day thinkers in this country.

Prerequisite, Philosophy 207.

Three hours credit.

310. **METAPHYSICS;** The study of the chief philosophical world views with the aim to develop a perspective for the interpretation of experience.

Prerequisite, Philosophy 207.

Three hours credit.

403-404. **THE HISTORY OF PHILOSOPHY.** First semester: the history of philosophy from its beginnings among the Greeks to the founding of modern science. Second semester: the history of philosophy continued to the present century. One concern is to understand the fundamental thoughts of the great philosophers, including Plato, Aristotle, Descartes, the British empiricists, and Kant.

Prerequisite, Philosophy 207.

Three hours credit each semester.

413-414. STUDIES IN PHILOSOPHY. These studies will involve an intensive research study of the writings of one or more outstanding philosophers. Limited to qualified majors.

Three hours credit each semester.

Physical Education

Associate Professor BUSEY

Instructors PHILLIPS, VARGO, AND WHITEHILL

101-102. PHYSICAL EDUCATION (Men). Basic instruction in fundamentals of sports that include touch-football, soccer, volleyball, table tennis, bowling, badminton, wrestling, swimming, gymnastics and tumbling, softball, tennis, golf and archery.

A regulation four-piece uniform consisting of a Lycoming College T-shirt, royal blue shorts, and a royal blue sweat suit, along with a basketball-type rubber-soled shoe is required for all class work in physical education. This uniform may be secured at the college bookstore.

One hour credit.

201-202. PHYSICAL EDUCATION (Men). More advanced work in the various activities with added emphasis on those sports that have the greatest potential as recreational and leisure time interests in after college life.

Uniform requirement is the same as for Phys. Ed. 101-102.

One hour credit.

111-112. PHYSICAL EDUCATION (Women). Basic instruction in fundamentals of swimming, tennis, badminton, bowling, table tennis, archery, volleyball, basketball, softball, field hockey, soccer, stunts and tumbling, rhythmic, informal gymnastics, folk, modern and character dancing.

A regulation two-piece uniform consisting of a white blouse and blue shorts, along with a tennis-type, rubber-soled shoe is required for all class work in physical education. This uniform may be secured at the college bookstore.

One hour credit.

211-212. PHYSICAL EDUCATION (Women). More advanced work in activities offered freshmen. A reasonable degree of proficiency in a sport of her choice shall be required.

One hour credit.

Physics

Associate Professor BABCOCK

Assistant Professor REMLEY

101-102. GENERAL PHYSICS. A course in the first semester covering mechanics, heat, and sound; and in the second semester, magnetism, electricity, and light. Lectures and recitations based on a standard text accompanied by a systematic course in quantitative laboratory practice. Three hours lecture and two two-hour laboratory periods each week.

Five hours credit each semester.

Prerequisite, Mathematics 101-102 or equivalent.

201. STATICS. The division of mechanics which includes the fundamental conception of a force, the resolution of a force into components, and the composition of forces into a resultant. Both the analytical and the graphic solutions are used.

Prerequisites, Mathematics 205, 305; 306; Physics 101.

Three hours credit.

202. STRENGTH OF MATERIALS. The application of analytical and vector methods to mechanical systems, including moment and shear diagrams.

Prerequisite, Physics 201.

Three hours credit.

301. DYNAMICS. A division of mechanics including forces which act on a body to cause a change in its motion.

Prerequisite, Physics 201.

Three hours credit.

302. METEOROLOGY. A study of basic principles pertaining to the observation and recording of weather data, and the basing of future weather predictions on them.

Three hours credit.

303. LIGHT. A study of the theories of physical optics and an introduction to modern spectroscopy.

Prerequisite, Physics 101-102. Conference on mathematical background required.

Three hours credit.

305-306. **ELECTRICITY AND MAGNETISM.** This course treats electrical and magnetic phenomena. Theoretical concepts as well as problems are stressed. Selected topics include circuits, inductances, and capacitance. Laboratory work is included.

Prerequisite, Physics 102.

Four hours credit each semester.

401-402. **MODERN PHYSICS.** Recent developments in modern physics including atomic and nuclear structure. Special attention is given the quantum theory, special relativity, radiation laws. Selected topics include nuclear reactions, nuclear fission, the Bohr theory of the atom and radio activity.

Prerequisite, Physics 102.

Three hours credit each semester.

Political Science

Professor WEIDMAN

Assistant Professor LEH

A major in political science consists of twenty-four semester hours.

201. **AMERICAN GOVERNMENT.** An inquiry into the structure and functions of the various organs of national government, with special reference to their expansion to meet the problems of a modern society.

Three hours credit.

202. **STATE AND LOCAL GOVERNMENT.** A comparative study of the organization and functions of the states and their subdivisions, their relationship to the federal government, and the newer concept of the work of state administration.

Prerequisite, Political Science 201.

Three hours credit.

301. **PRINCIPLES OF POLITICAL SCIENCE.** A study to acquaint the student with the functions of the modern state, the development of political thought, individual liberty under the law, and the nature of political parties.

Prerequisite, Political Science 201.

Three hours credit.

302. **POLITICAL PARTIES AND PRESSURE POLITICS.** A study of political parties in the United States with emphasis upon factors of control, campaign techniques, propaganda, and their relationship to pressure groups.

Prerequisite, Political Science 201.

Three hours credit.

303. COMPARATIVE GOVERNMENT. An analysis of several governments of the world, affording a comparison between democratic and authoritarian states, with particular attention directed to changes resulting from World War II.

Prerequisite, Political Science 201.

Three hours credit.

304. MUNICIPAL GOVERNMENT. An analysis of different forms of city government in the United States, the relation of the city to the states, city politics and elections, and the problems of municipal administration.

Prerequisite, Political Science 201.

Three hours credit.

407-408. CONSTITUTIONAL LAW. A course designed to trace Supreme Court decisions as a reflection of social and political conflicts; to reveal the judiciary as a vital instrument of government; to observe the adaptation of basic law to the various crises in human affairs; and to analyze constitutional doctrine through the use of the case method.

Prerequisite, Political Science 201.

Three hours credit each semester.

411. INTERNATIONAL ORGANIZATION. A study of the development, structure, and functions of the principal agencies of international co-operation, with particular attention to the United Nations and to regional organizations.

Prerequisite, Political Science 201.

Three hours credit.

412. WORLD POLITICS. An analysis of the dynamic factors in international political behavior with special reference to power and ideology; mutuality and conflict of national interests; policy formation and execution in the continuing world crisis.

Prerequisite, Political Science 201.

Three hours credit.

415-416. STUDIES IN POLITICAL SCIENCE. Conferences, and oral and written reports on selected topics designed to round out a student's knowledge of Political Science. Limited to qualified majors.

Three hours credit each semester.

Psychology

Professor SKEATH

Assistant Professors CANON AND MILLER

A major in psychology consists of thirty hours including those courses whose numbers end in eleven, twelve, twenty-one, and twenty-two. Student majors are encouraged to include in their programs courses in zoology, anatomy and physiology, genetics, History 321-322, language (French, German, and/or Russian) Mathematics 207, and Philosophy 403-404.

111-112. GENERAL PSYCHOLOGY. Introductory study of behavior. Survey of experimental studies of motivation, learning, thinking, perceiving, individual differences. Emphasis on scientific methodology.

Three hours credit each semester.

211-212. MENTAL HYGIENE AND ABNORMAL BEHAVIOR. Study of normal personality and adjustment together with deviations as illustrated in various forms of mental illness.

Three hours credit each semester.

308. CHILD PSYCHOLOGY. Behavior from birth to adolescence: intellectual, emotional, social, physical development.

Three hours credit.

309. EDUCATIONAL PSYCHOLOGY. Psychological principles as applied to learning and the development of personality.

Three hours credit.

311-312. STATISTICS AND EXPERIMENTAL PSYCHOLOGY. Elementary statistics through correlation and significant differences. Experimental studies emphasizing research method and design.

Three hours credit each semester.

321-322. SEMINAR IN LEARNING THEORY. Exposition and analysis of systematic conceptions of the learning process from the behavioristic and field points of view.

Three hours credit each semester.

417-418. PRACTICUM IN HUMAN RELATIONS. Case studies of family, personal, social, and industrial situations.

Two hours credit each semester.

421-422. SEMINAR IN PERSONALITY. Exposition and analysis of phenomenological, bio-social, and psychoanalytic conceptions of personality theory.

Three hours credit each semester.

Religion

Assistant Professors HAMMOND AND RAMSEY

A major in religion consists of twenty-four semester hours.

111. THE HEBREW-CHRISTIAN TRADITION. A survey of the fundamental cultural and religious themes of the Hebrew-Christian heritage with reference to their historical development. Substantial reading assigned in the Bible.

Three hours credit.

206. THE LITERATURE OF THE OLD TESTAMENT. A study of the major works of the Old Testament with special reference to their origins, contents, and historical significance.

Three hours credit.

208. THE LITERATURE OF THE NEW TESTAMENT. A study of the major writings of the New Testament with reference to their authorship, date, and significance for the understanding of primitive and contemporary Christianity.

Three hours credit.

305. THE PROPHETS. A consideration of the prophetic movement in Israel beginning with the pre-literary prophets and including the works of Amos, Hosea, Isaiah, Jeremiah, and the prophets of the Restoration.

Three hours credit.

307. THE LIFE AND TEACHINGS OF JESUS. An approach to the life and teachings of Jesus through the critical study of the sources and the reconstruction of the historical, social, and religious setting of His ministry.

Prerequisite, Religion 206 or 305.

Three hours credit.

310. THE HISTORY OF RELIGION IN AMERICA. A survey in American church history with special attention being given to the prominent personalities and environmental factors involved in the founding and development of the various religious groups—Protestant, Catholic, and Jewish—in this country.

Three hours credit.

312. INTRODUCTION TO NEAR EASTERN ARCHAEOLOGY. A scientific study, in survey form, of the major results of archaeological investigations in the Near East since 1900, in the light of their bearing upon the biblical materials and Near Eastern history and culture. Basic archaeological methods, form-types and the care and preservation of artifacts will be considered. Local field work will be arranged. Open to Juniors and Seniors with consent of instructor. Limited to twelve students.

Three hours credit.

THE GOSPEL ACCORDING TO ST. MARK. (See Greek 318.)

403. THE ORGANIZATION AND WORK OF THE LOCAL CHURCH. A study of the nature and structure of the local church, its roles in the community, and the responsibilities of its personnel.

Three hours credit.

404. THE EDUCATIONAL MINISTRY OF THE LOCAL CHURCH. An introduction to religious education as a function of the local church, with special attention being given to the nature and goals of Christian education, methods of church-school teaching, and the relation between faith and learning.

Three hours credit.

411. THE RELIGIONS OF THE WORLD. A survey of the religious beliefs and practices of mankind through the historical study of the major living religions; an attempt to illuminate the origins, the nature, and the development of religion.

Three hours credit.

414. PROTESTANT CHRISTIANITY. An historical and theological study of the origin and development of the Protestant movement, 1500-1950, with particular emphasis on American Protestantism.

Prerequisite, Religion 208 or 307.

Three hours credit.

THE EPISTLE TO THE ROMANS. (See Greek 418.)

Russian

Assistant Professor BIRKENMAYER

111-112. BEGINNING. Fundamentals of pronunciation, Cyrillic alphabet and grammar; practice in reading, conversation and composition.

Three hours credit each semester.

211-212. INTERMEDIATE. Review of grammar. Study of modern texts; practice in conversation and composition. Reports on outside reading.

Three hours credit each semester.

Science Survey

Professor MOBBERLEY

Assistant Professor REMLEY

Science 101-102 satisfies the science requirement for graduation in the Business Administration curriculum.

101. SCIENCE. Survey course in the principles of the Physical Sciences.
Three hours credit.

102. SCIENCE. Survey course in the principles of the Biological Sciences.
Three hours credit.

Sociology

Associate Professor SONDER

A major in sociology consists of twenty-four semester hours.

105. INTRODUCTION TO SOCIOLOGY. An introduction to the systematic study of human inter-relationships and the products of these relationships.
Three hours credit.

202. MARRIAGE AND THE FAMILY. The history, structure, and functions of modern American family life, emphasizing dating, courtship, factors in marital adjustment, and the changing status of family members.

Prerequisite, Sociology 105 or junior standing.

Three hours credit.

205. CONTEMPORARY SOCIAL PROBLEMS. A study of the causal theories, manifestations, and possible solutions for the social phenomena which are currently accepted as problems.

Prerequisite, Sociology 105.

Three hours credit.

214. GENERAL ANTHROPOLOGY. A survey of the physical and cultural evolution of man and society, placing emphasis upon the comparative descriptions of recent primitive societies.

Three hours credit.

302. EDUCATIONAL SOCIOLOGY. The aims, purposes, and operation of education are interpreted from the sociological viewpoint with emphasis upon the home and community as they affect the educative process, as well as upon the special role of the teacher in school and society.

Prerequisite, Sociology 105.

Three hours credit.

305. CRIMINOLOGY. The nature, genesis, and organization of criminal behavior is examined from both group and individual viewpoints. Juvenile delinquency and the treatment of crime are presented.

Prerequisite, Sociology 105.

Three hours credit.

308. RURAL AND URBAN COMMUNITIES. The concept of community is treated as it operates and affects individual and group behavior in rural, suburban, and urban settings. Emphasis is placed upon characteristic institutions and problems of modern city life.

Prerequisite, Sociology 105.

Three hours credit.

309. RACIAL AND CULTURAL MINORITIES. A study of the adjustments of minority racial, cultural, and national groups in modern America. Attention is also given to minority problems within their world setting.

Prerequisite, Sociology 105.

Three hours credit.

STATISTICS. (See Psychology 311).

312. COLLECTIVE BEHAVIOR AND SOCIAL MOVEMENTS. The mob and crowd are treated as social phenomena. The major social movements within western civilization are described with analysis.

Prerequisite, Sociology 105 and junior standing.

Three hours credit.

314. POPULATION. The size, growth, and trends within population are presented along with their significant results for culture and social change.

Prerequisite, Sociology 105 and junior standing.

Three hours credit.

407. GROUPS AND THE DEVELOPMENT OF HUMAN NATURE. An integrated, theoretical explanation of meaningful social behavior is developed and applied to classes, age groupings, and institutions of modern American society. Emphasis is placed upon the concepts of self, role, and stratification.

Prerequisite, Sociology 105 and three additional hours in Sociology.

Three hours credit.

408. THE DYNAMICS OF PUBLIC OPINION. A theoretical and research-based study of the foundation, formation, and operation of public opinion in American society. Emphasis is placed upon polling and propaganda techniques, and analysis is made of the major media of public opinion.

Prerequisite, Sociology 105 and junior standing.

Three hours credit.

409. SOCIOLOGY APPLIED TO BUSINESS AND THE PROFESSIONS. The principles of Sociology are treated to reflect their usefulness in business, industry, and such professions as the ministry, social work, and counselling.

Prerequisite, Sociology 105 and one other Sociology course or permission of instructor.

Three hours credit.

410. STUDIES IN THE HISTORY OF SOCIOLOGICAL THOUGHT. The history of the development of sociological thought from its earliest philosophical beginnings is treated through discussions and reports. Emphasis is placed upon sociological thought since the time of Comte.

Limited to qualified majors, others with permission of instructor.

Three hours credit.

424. STUDIES IN SOCIOLOGICAL RESEARCH. The methods of sociological research are treated, and students acquire practical experience in the application of these methods.

Limited to qualified majors, others with permission of instructor.

Three hours credit.

Spanish

Associate Professor GILLETTE

Assistant Professor BIRKENMAYER

A major in Spanish consists of twenty-four semester hours, including Spanish 401-402.

111-112. BEGINNING. Fundamentals of pronunciation and grammar; practice in reading, conversation, and composition.

Three hours credit each semester.

211-212. INTERMEDIATE. Review of grammar. Study of modern texts; outside readings and reports; practice in conversation and composition.

Prerequisite, Spanish 111-112 or equivalent.

Three hours credit each semester.

301-302. **ADVANCED GRAMMAR.** Spanish style illustrated by reading representative modern authors. Difficult points of grammar and usage studied. Drill on idioms and verb forms of high frequency.

Prerequisite, Spanish 211-212, 311-312 or equivalent.

Three hours credit each semester.

303-304. **CONVERSATION.** Study of customs, manners, and conditions in Latin America. Representative works are read and discussed in Spanish. Class meets four times each week.

Three hours credit each semester.

311-312. **ADVANCED.** Reading of Golden Age and modern texts; outside readings and reports. Study of principal literary movements and civilization.

Prerequisite, Spanish 211-212 or equivalent.

Three hours credit each semester.

401-402. **SURVEY.** A study of representative works from the earliest monuments to modern times. Analysis of the texts and their relations to other literatures. Required of all majors.

Prerequisite, Spanish 301-302 or equivalent.

Three hours credit each semester.

Speech

Assistant Professor MYERS

105. **FUNDAMENTALS OF SPEECH.** Development of the elementary principles of simple oral communication through lectures, prepared assignments in speaking, and informal class exercises.

Three hours credit.

106. **VOICE AND PHONETICS.** Study of the physical, physiological, and psychological aspects of speech. Considerable attention will be devoted to improvement of the individual student's speech through intensive study of the International Phonetic Alphabet, voice production, and through practice exercises.

Three hours credit.

205. **DISCUSSION AND DEBATE.** The theory and practice of group problem-solving and rhetorical techniques. In addition to dealing with the traditional materials of discussion and debate, the student will become acquainted with more recent theories of group structure and function and will be expected to relate them to his own experience.

Three hours credit.

212. INTRODUCTION TO THEATRE. A survey of the artistic and technical functioning of theatre including playwriting, acting, directing, and design. The course is oriented to the needs of the layman who wishes to develop an informed understanding of dramatic arts.

Three hours credit.

311. INTRODUCTION TO DRAMA. A survey of world dramatic literature from Greeks to the present.

Three hours credit.

314. THE HISTORY AND CRITICISM OF MOTION PICTURES. A study of the aesthetic, technical, and social development of motion pictures. A fundamental critical technique will be developed through lectures, assignments, and the study of representative films. This technique will not only be applicable to motion pictures, but to the arts in general.

Three hours credit.

Expenses and Financial Aid

Expenses

General Expenses

In considering the expenses of college, it is well to bear in mind that no student actually pays the full cost of his education. State colleges are enabled to keep the cost of tuition within reasonable limits by grants from the public treasury; independent colleges achieve this by voluntary contributions supplemented by income from their invested endowment funds. At Lycoming College, the tuition fee which each student pays represents only a portion of the total instruction cost. Tuition is kept at the lowest possible minimum consistent with adequate facilities and competent instruction.

Tuition at Lycoming is \$425.00 per semester, plus certain fees which are listed on the following pages. For students taking meals at the College, rooms in Rich Hall, Rich House, Wesley Hall, and the Fraternity Houses are \$125.00 per semester. Board is \$225.00 per semester (the academic year comprises two semesters of approximately sixteen weeks each.) If, for justifiable reason, it is impossible for a student to eat in the College Dining Hall, permission may be given the student to make other arrangements for meals. However, in the event such permission is granted, the room cost will be 50% higher than the above rates. If a student requests the use of a double room as a single room and the room is available, he will be charged 50% more than regular rates.

Regularly enrolled students carrying a normal schedule of 13 to 16 credit hours of class or laboratory (exclusive of Physical Education) pay the full tuition charge. Those students taking fewer than 13 hours of work per semester, are charged \$30.00 per credit hour. Additional credits beyond the normal schedule of 17 semester hours are charged at the rate of \$30.00 for each semester hour credit. Additional detailed information will be furnished by the Treasurer's office upon request.

Application Fee and Deposit

All students applying for admission are required to send an application fee of \$10.00 with the application. This charge is to

partially defray the costs of processing the application, and of keeping academic records.

After a resident student is notified that he has been accepted for admission by the college, he is required to make a deposit of \$50.00. This deposit is evidence of the applicant's good intention to matriculate and is applicable to the general charges of the semester, and is not an extra fee.

All returning students are required to pay a deposit of \$25.00 on or before July 1, to reserve their place in the student body. This fee is credited to their account. Deposits are credited to the student's account, but are not refundable after August 1.

Books and Supplies

A modern book and supply store is conveniently located in the Student Activities Building. Books and supplies are purchased by the individual student. The estimated cost is approximately \$75.00 per year, but will vary somewhat in accordance with the course of study which the student is pursuing. The bookstore is open registration day and daily thereafter.

Art and Music

Tuition for art and music majors is higher than it is for the other courses of study. In these programs best results are obtained by individual instruction; consequently the expense is greater. The cost in excess of the normal tuition varies according to the student's program of study but does not exceed \$50.00 per semester. The exact cost is determined at the time of registration.

Special or part-time music students are charged \$50.00 per semester for one one-half hour lesson per week.

A charge of \$5.00 per semester for piano and \$10.00 per semester for organ is made when these instruments are required for practice. These rates are for one period per day for each lesson scheduled.

Special or part-time applied art students will be charged \$100.00 for six class periods per week (three credit hours).

Expenses in Detail Per Semester

RESIDENT STUDENTS (Those living in College Dormitories)

	<i>Per Semester</i>
Tuition	\$425.00
Room	125.00
Board	225.00
Activity Fee	25.00
Basic cost per semester	<u>\$800.00</u>

NON-RESIDENT STUDENTS (Those not living in College Dormitories)

Tuition	\$425.00
Activity Fee	25.00
Basic cost per semester	<u>\$450.00</u>

SPECIAL CHARGES

Laboratory Fees per Semester:

Biology, Chemistry, Physics	\$10.00 to \$30.00
Office Practice (Secretarial Course)	10.00
Office Machines	10.00
Typewriting	10.00
Practice Teaching	40.00
Late Registration Fee	5.00
Additional Credit Per Semester Hour	30.00
Diplomas—for A.B. or B.S. degree	10.00
Transcript Fee (no charge for first transcript)	1.00
Caps and Gowns (rental at prevailing cost)	

The College reserves the right to adjust fees at any time as conditions necessitate.

Payment of Fees

The basic fees for the semester are due and payable on or before registration day for that semester. Checks or money orders should be payable to Lycoming College. These basic fees are as follows:

Resident Students	\$800.00
Non-Resident Students	\$450.00

Charges for laboratory fees and additional credit hours will be billed and payable immediately following each registration period.

Partial Payments

For the convenience of those who find it impossible to follow the schedule of payments as listed, arrangements may be made with the College Treasurer, for the monthly payment of college fees. Additional information concerning partial payments may be obtained from the Treasurer, or Director of Admissions.

Withdrawals and Refunds

The date on which the Dean of the College approves the student's withdrawal sheet is considered the official date of withdrawal. In the case of minors, the approval of the parent or guardian is required before the withdrawal is approved and before any refund is made.

Room rentals have been fixed on a semester basis. Consequently, students leaving college prior to the ending of a semester will not be entitled to any refund on room rent. Board will be pro-rated by the week over the period of attendance.

Refund of tuition will be made to students who withdraw voluntarily from the College while in good standing and is fixed on the following basis; Students leaving during the first four-week period are charged 30%; during the second four weeks 60%; during the third four weeks, 90%; after twelve weeks, full charge.

Dropping a subject from the original schedule after the first week of either semester will not justify any claim for refund of tuition charges. Written permission to drop the subject must be obtained from the Dean's Office. No refund will be made to those students who are asked to withdraw from college.

Other fees cannot be refunded for any reason whatever.

Penalty for Non-Payment of Fees

A student will not be registered for courses in a new semester if his account for previous attendance has not been settled.

No grades will be issued, no diploma, certificate, transcript of credits, or certification of withdrawal in good standing will be granted to any student until a satisfactory settlement of all obligations has been made.

Damage Charges

Wherever possible, damage to dormitory property will be charged to the person or persons directly responsible. Damage and breakage occurring in a room will be the responsibility of students occupying the room.

Halls and bathroom damage will be the responsibility of all students of the section where damage occurs. Actual costs of repairs will be charged.

Financial Aid

A generous program of financial aid for students is designed to recognize outstanding achievement and to supplement limited resources by providing assistance to students in their efforts to obtain a college education. This assistance may take any one, or any combination, of the following forms: (1) Scholarships, (2) Grants-in-aid, (3) Discounts, (4) Loans, (5) Workshops.

With the exception of discounts, the establishment of need is the controlling factor in determining the amount of the grant or award. To this end, Lycoming uses the College Scholarship Service sponsored by the College Entrance Examination Board. Prescribed forms are furnished by the College upon request.

Scholarships are awarded to the beginning student on the basis of academic achievement as evidenced by the scores on the College Entrance Examination Board tests and a ranking in the first fifth of the high school class. To continue the receipt of the award during succeeding years, a cumulative grade point average of 3.0 plus must be maintained together with satisfactory campus citizenship.

Grants-In-Aid are awarded annually to students on the basis of a demonstrated need. The size of the grant is determined by need and by the promise of becoming beneficial members of the college family and of society.

Loans - Student loans are available from the following sources:

1. Title II of the National Defense Education Act of 1959 (Public Law 85-864).
2. Methodist Student Loans made available by The Methodist Church.
3. The Mr. and Mrs. R. F. Rich Loan and Prize Fund. The income from a capital fund of \$10,000 is available for loan.
4. Donald Robert Ahn Memorial Fund in Music. The principal of the Memorial Fund is available for loans to worthy students who are majoring in music.
5. The Lambda Chi Alpha Loan Fund, created by the gift of \$500 of Dean and Mrs. William S. Hoffman. The purpose of the fund is to grant loans in small amounts for emergencies where the student is able to show immediate need of financial assistance.

Detailed information concerning the above loans is available upon request.

Workships: Financial assistance is made available to a limited number of students annually in both the College and the city by means of gainful employment.

Discounts: Financial assistance is available through grants from The Methodist Church to children of ministers and ministerial students. Consideration is also given to families with more than one student at the College.

Endowment and Scholarships

Endowment

The Margaret A. Stevenson Powell gift to Endowment. \$1,200 the gift of her children.

The Pearl C. Detwiler gift to Endowment. \$500 bequeathed by her husband.

The Frank Wilson Klepser Memorial gift to Endowment. \$5,000 given by his parents.

The Benjamin C. Bowman gift to Endowment. \$5,000 the gift of Mr. and Mrs. J. Walter Bowman.

The Mr. and Mrs. A. F. Young gift to Endowment. \$10,000.

The Miriam P. Welch gift to Endowment. \$500.

The Wilson Hendrix Reiley Memorial gift to Endowment. \$500.

The Mrs. Margaret J. Freeman gift to Endowment. \$1,000.

The Agnes L. Hermance Art gift to Endowment. \$2,000.

The Grace Stanley Dice Memorial gift to Endowment. \$1,000 the gift of her husband, Willis C. Dice.

The Clarke Memorial Fund of about \$100,000, provided by gift and bequest by the late Miss Martha B. Clarke, of Williamsport, Pennsylvania, a former student, in the interest of the development program of Lycoming College. This was applied to the erection of the Clarke Building.

The Julia Trump Rich Memorial Fund, Endowment through annuity, of \$25,000, the gift of Robert F. Rich, husband.

The M. B. Rich Chair of Religion. Endowment \$50,000.

The Rich Family Endowment of \$75,000. The income therefrom to be used for the upkeep of Rich Hall, Fine Arts Building and President's Residence.

Scholarships

Over two thousand dollars is awarded annually in scholarships and prizes. This not only encourages scholastic attainment, but also affords generous help to needy, worthy students. The list of scholarships and prizes follows:

THE DeWITT BODINE SCHOLARSHIP, founded by the late DeWitt Bodine, of Hughesville, Pa.

The entire expenses of board and tuition to that pupil of the graduating class of the Hughesville High School who shall excel in scholarship and character.

THE EDWARD J. GRAY SCHOLARSHIP, founded by the late Rev. Dr. Edward J. Gray, for thirty-one years the honored president of this institution.

The interest on \$1,000 to be paid annually, in equal amounts, to the two applicants who attain a required rank highest in scholarship and deportment in the Senior Class.

THE ALEXANDER E. PATTON SCHOLARSHIP, founded by the late Hon. Alexander E. Patton, Curwensville, Pa.

The interest on \$1,000 to be paid annually, in equal amounts, to the two applicants who attain a required rank highest in scholarship and deportment in the Junior Class.

THE GEORGE W. HUNTLEY, JR., SCHOLARSHIP, founded by the late George W. Huntley, Jr., Emporium, Pa.

The interest on \$7,000 is available to help defray the tuition and expenses for the first year only of any graduate of Emporium High School who meets provisions as set forth in the trust agreement. The selection is made by the Superintendent of Schools, Cameron Co., Pa.

THE ELIZABETH S. JACKSON SCHOLARSHIP, founded by the late Mrs. Elizabeth S. Jackson of Berwick, Pa.

The interest on \$500 to be paid annually to the applicant who attains a required rank highest in scholarship and deportment in the Sophomore Class.

THE DONALD C. WOLFE SCHOLARSHIP, founded by the late Mrs. Nora E. Wolfe, of Williamsport, Pa.

The interest on \$4,000 to be paid annually to a worthy ministerial student to be selected by the trustees of Lycoming College.

THE WILLIAM WOODCOCK SCHOLARSHIP, founded by William L. Woodcock, Esq., of Altoona, Pa.

The interest on \$500 to be paid annually to the applicant who attains a required rank second in scholarship and deportment in the Sophomore Class.

THE HIRAM AND ELIZABETH WISE SCHOLARSHIP, founded by Hiram Wise, Montoursville, Pa.

The interest on \$500 to be paid annually to that ministerial or missionary student who because of present circumstances and promise of future usefulness shall, in the judgment of the President, be deemed worthy of the same.

THE MRS. JENNIE M. RICH SCHOLARSHIP of \$5,000, the gift of her son, John Woods Rich, the interest on which is to be used in aiding worthy and needy students preparing for the Christian ministry or for deaconess or missionary work.

THE McDOWELL SCHOLARSHIP, founded by Mr. and Mrs. James E. McDowell, of Williamsport, Pa.

The interest on \$500 to be awarded annually by the President and Faculty to that ministerial student of the graduating class who shall excel in scholarship, deportment, and promise of usefulness, and who declares his intention to make the ministry his life work.

THE DAVID GROVE AND WIFE SCHOLARSHIP, founded by the late David Grove, of Lewistown, Pa.

The interest on \$2,040 to be given to worthy, needy students studying for the ministry, the holder or holders thereof to be appointed by the said Lycoming College.

THE MARY STRONG CLEMENS SCHOLARSHIP FUND of \$2,500 donated by the late Chaplain Joseph Clemens, of Manila, P. I.

The interest to be used as scholarship, or scholarship loan aid, for the benefit of a student or students of Lycoming College who are preparing for the Christian ministry, or for deaconess work, or its equivalent, in the Methodist Church. Beneficiaries may be named by Mrs. Mary Strong Clemens, or in the absence of such recommendation the recipient or recipients shall be named by the President of the School.

THE BERYL CLINE GLENN SCHOLARSHIP.

The interest on \$1,000 to be paid annually to a worthy student in the Music Department. The selection is made by the President and Faculty.

THE BISHOP WILLIAM PERRY EVELAND MEMORIAL SCHOLARSHIP, founded by the Alumni of Lycoming College who were students during the administration of Bishop William Perry Eveland and in his honor.

The interest on \$1,250 to be paid annually to a needy, worthy student or students who shall make the most satisfactory progress in scholarship and give promise of future usefulness and who by loyalty, school spirit, and participation in school activities is considered by the President and Faculty to most fully represent the standards and ideals of Lycoming College.

THE AMOS JOHNSON SCHOLARSHIP, founded by the late Rev. Amos Johnson, of Philadelphia, Pa.

\$500 to be held and invested by Lycoming College and the income arising therefrom to be used for the education of ministerial students of limited means.

THE BENJAMIN C. CONNER SCHOLARSHIP, the interest on \$500 given by an alumnus of the college to be awarded to that graduating student who has had at least 24 hours of mathematics beyond Mathematics 100 and whose average is highest for the mathematics courses taken beyond Mathematics 301.

THE RICH MEMORIAL SCHOLARSHIP FUND of \$5,000, provided in the will of the late Hon. M. B. Rich, the interest of which is to be awarded annually to worthy young men or women who intend to devote their lives to the preaching of the Gospel, the missionary cause, or the work of a deaconess. The beneficiary shall be named by the Faculty with the approval of the Board of Trustees.

THE C. LUTHER CULLER SCHOLARSHIP, the interest from an endowment of \$5,000 provided in the will of C. Luther Culler, of Williamsport, a graduate of Lycoming College in the Class of 1876. Awarded on scholarship.

THE CLARA KRAMER EATON MEMORIAL SCHOLARSHIP, founded by the late Clara Kramer Eaton, of Trevorton, Pa.

The interest on \$8,000 to be awarded annually to that student in the graduating class at Trevorton High School attaining the highest average in

scholarship, for the purpose of defraying the expenses of a year of instruction at Lycoming College.

THE ELISHA BENSON KLINE SCHOLARSHIP PRIZE IN MATHEMATICS, founded by I. Clinton Kline, Sunbury, Pa., in honor of his elder brother who graduated from the College in 1868.

The interest on \$1,000 to be paid to a student or students at the discretion of the President of Lycoming College.

THE NATIONAL METHODIST SCHOLARSHIP AWARDS, authorized by the General Conference of The Methodist Church, are granted on the basis of financial need, promise of usefulness, leadership ability, and scholarship, to Methodist students enrolling as full-time students in an accredited Methodist college or university.

THE COMPETITIVE TRUSTEE SCHOLARSHIPS.

A reduction in tuition of \$250.00 per semester for four years to contestants receiving the highest scores in a competitive examination.

THE BYRON C. BRUNSTETTER SCIENCE AWARD, established by Mrs. Frank H. Brunstetter in memory of her son.

The income on \$500 to be awarded to that senior majoring in the chemical and biological sciences who shall be judged by the Science division to have been a superior student in these sciences.

THE CLASS OF 1907 SCHOLARSHIP of \$25 to be awarded annually to that student at Lycoming College who shall attain high scholarship and who, in the opinion of the President and the faculty, has been outstanding in the promotion of college spirit through participation in athletics and other non-curricular college activities. This scholarship is made available through the gift of A. R. Evans.

THE JOHN W. LONG MEMORIAL SCHOLARSHIP, created by gifts from alumni in memory of Dr. John W. Long, who served as president of the College for a period of thirty-four years.

THE JOAN BERRY FOUNDATION, established by Mr. and Mrs. William Berry, in memory of Joan Berry.

The income from the Joan Berry Foundation to be used to provide financial assistance to deserving and needy students, who, in the opinion of the President of the College, are entitled to help.

THE GRIT SCHOLARSHIP, established by The Grit Publishing Co., Williamsport, Pa.

The interest on \$25,000 to be used to provide scholarship assistance for children of employees of The Grit Publishing Company, or other graduates of local high schools.

FACULTY WIVES SCHOLARSHIP, founded by the Faculty Wives Club of Lycoming College. An award of \$50.00 to be given to a sophomore girl during the second semester of each year. Recipient to be chosen by a committee of the Faculty Wives Club.

Prizes

THE RICH PRIZE of \$25.00, given in honor of the late Hon. and Mrs. M. B. Rich, of Woolrich, Pa., to the student in the Freshman Class who shall attain a required rank highest in scholarship and deportment.

THE METZLER PRIZE of \$10.00 for superior work in Junior English, given by the late Rev. Oliver Sterling Metzler, of the Central Pennsylvania Conference.

THE RICH PRIZES of \$10.00 and \$5.00 each, given in honor of the late Hon. and Mrs. M. B. Rich, of Woolrich, Pa., to be awarded to the two students who at a public contest shall excel in reading the Scriptures.

THE RICH PRIZES of \$15.00 and \$10.00 each, given in honor of the late Hon. and Mrs. M. B. Rich, of Woolrich, Pa., to be awarded to the two students who shall excel in writing and delivering an original oration.

THE FACULTY PRIZE, awarded to that day student whose scholastic record has been satisfactory and who, in the opinion of the faculty, has been outstanding in the promotion of school spirit through participation in school activities.

THE 1930 DART PRIZE, the interest on \$300.00 to be given to that student or students in the Art Department according to the recommendation of the Head of the Art Department.

THE KAPPA DELTA RHO FRATERNITY PRIZE of \$25.00 to that college organization which during the past year best exemplified an ideal of Kappa Delta Rho; athletic prowess, social grace, or intellectual achievement. Awarded by a majority vote of the brothers, in June.

THE WILLIAMSPORT CIVIC CHOIR PRIZE, to be awarded to that member of Lycoming Choir who in the judgment of the director, the choir members, and the faculty shall have demonstrated through his choir activity, his loyalty to the ideals of Lycoming College.

AN AWARD BY THE PENNSYLVANIA INSTITUTE OF CERTIFIED PUBLIC ACCOUNTANTS to the senior judged to be the best accountant in terms of scholarship, personality, and qualities of leadership.

THE PHI ALPHA THETA SENIOR KEY, presented by the Lycoming College Chapter of Phi Alpha Theta, the national history honorary fraternity, to the graduating Senior who has maintained the highest average in the field of history among those who have completed at least twenty-one semester hours in that subject.

THE PHI ALPHA THETA SOPHOMORE KEY, presented by the Lycoming College Chapter of Phi Alpha Theta, the national history honorary fraternity, to the Sophomore who has the highest average in the field of history among those who have completed the survey courses in that subject.

THE DON LINCOLN LARRABEE LAW PRIZE of \$100.00 to be awarded to that student in recognition of superior scholarship in the study of Business Law.

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Preliminary Enrollment Blank
Lycoming College, Williamsport, Pennsylvania

Date

Name

Address

Phone Number Sex Age

Years of High School Work Completed

Name of High School

College Work Completed (If any)

When do you expect to enter Lycoming?

Which curriculum do you wish to study?

If a veteran, check Public Law under which you are eligible

for training: 550..... 894.....

Mail appropriate blank to:

DIRECTOR OF ADMISSIONS

LYCOMING COLLEGE, WILLIAMSPORT, PA.

Application for Admission to Summer Sessions
Lycoming College, Williamsport, Pennsylvania

Name

Address

is a student in good standing at

College

Location

and has permission to enroll in the following courses at Lycoming College:

Semester Hours

.....

.....

.....

.....

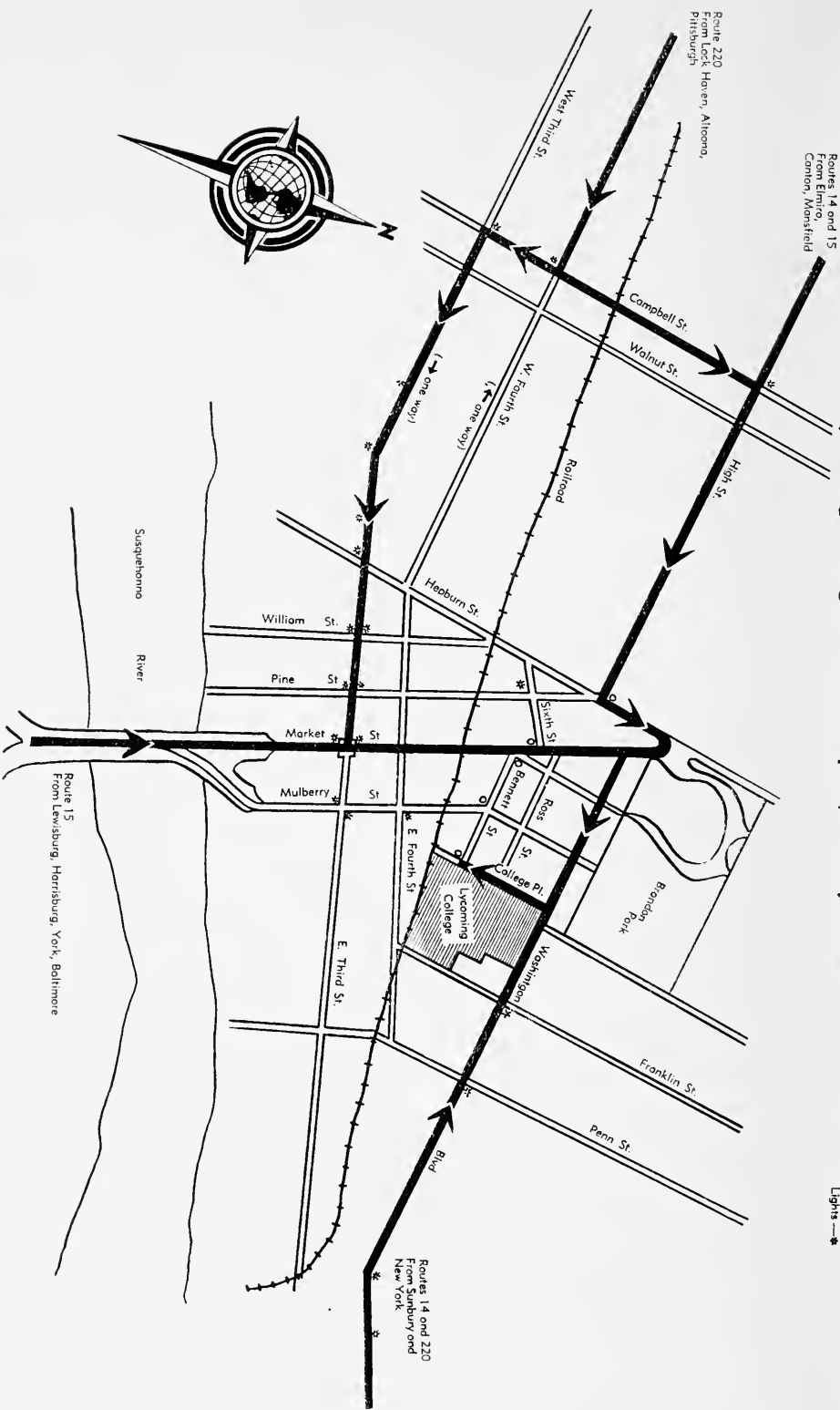
..... Signed

Date

Dean or Registrar

Lycoming College in Williamsport, Pennsylvania

Stop Signs—o
Lights—*



Lycoming College Campus

